



**BOBBY JINDAL**  
GOVERNOR

**PEGGY M. HATCH**  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No.:

Agency Interest No.: 3116  
Activity No.: PER20080013

Mr. R. William Wuensche  
Vice President/General Manager  
Alon Refining Krotz Springs, Inc.  
P. O. Box 453  
Krotz Springs, LA 70750-0453

RE: Part 70 Operating Permit Renewal and Modification, Krotz Springs Refinery, Alon Refining Krotz Springs, Inc.,  
Krotz Springs, St. Landry Parish, Louisiana

Dear Mr. Wuensche:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

Permit No.: 2600-00003-V2

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:QMZ  
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Krotz Springs Refinery**  
**Agency Interest No. 3116**  
**Alon Refining Krotz Springs, Inc.**  
**Krotz Springs, St. Landry Parish, Louisiana**

**I. Background**

Alon Refining Krotz Springs, Inc. owns and operates a petroleum refinery (Krotz Springs Refinery) located on Highway 105 South near Krotz Springs, in St. Landry Parish, Louisiana. The facility was first permitted in 1977. This is a permit renewal and modification to the Permit No. 2600-00003-V1, issued May 17, 2007 and amended April 1, 2008.

**II. Origin**

A permit application and Emission Inventory Questionnaire dated October 9, 2008 were submitted requesting a Part 70 operating permit renewal and modification for the above referenced facility. Additional information dated August 7, 2009 was also submitted.

**III. Description**

The Krotz Springs Refinery consists of a crude unit, a vacuum unit, a fluidized catalytic cracking (FCC) unit, a naphtha hydrotreater-reformer, a polymerization unit, an octenes/crude mineral spirits unit, an isomerization unit, an ammonium thiosulfate (ATS) unit, a light ends recovery unit, and a gasoline desulfurization unit. Support facilities include steam boilers, docks, truck and railcar loading/unloading facilities, a wastewater treatment plant, and storage tanks.

Piping, boilers, pumps, dryers, tanks, and other equipment are utilized in the processes. Raw materials are received at the facility via barges, trucks, and pipelines. Finished products are shipped from the facility by pipelines, trucks, railcars, and barges.

The modification includes the following changes:

- Incorporate the Consent Decree interim NO<sub>x</sub> emission limitations for the FCCU (1-85);
- Add a tank emission cap to allow operational flexibility of tank services;
- Add a loading emission cap to allow operational flexibility of loading operations;
- Add an emission point for the Site Remediation Transfer System;
- Move several tanks from the Insignificant Activities list to permit as emission points;
- Add several internal combustion engines used for emergency responses/service outages;
- Reconcile emission rates for marine loading operations and truck loading operations;
- Remove Methanol Distillation Unit from the permit, which was out of service;
- Update the fugitive emissions based on component counts obtained during a recent retagging to the existing units and new components in the new LRU Unit;
- Update the Startup and Shutdown emissions to remove emissions associated with equipment as part of part of MTBE removal project and to include emissions associated with the new LRU Unit;

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- Add emissions for tank cleanings;
- Reconcile estimated potential emission rates for heaters and boiler;
- Reconcile pollutant speciation profiles and emission estimates for several emission sources based on current available data;
- Update Specific Requirements;
- Update Insignificant and General Condition XVII Activities lists;
- Incorporate the consolidated PSD permit terms and conditions into this permit.

Estimated emissions from the Krotz Springs Refinery in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	196.26	203.05	+ 6.79
SO <sub>2</sub>	1,046.28	1,049.66	+ 3.38
NO <sub>x</sub>	728.37	758.38	+ 30.01
CO	663.53	670.20	+ 6.67
VOC	1,209.84	1,215.46	+ 5.62

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,1,1-Trichloroethane	-	< 0.01	< 0.01
1,1,2,2-Tetrachloroethane	-	< 0.01	< 0.01
1,1,2-Trichloroethane	-	< 0.01	< 0.01
1,1-Dichloroethane	-	< 0.01	< 0.01
1,2-Dibromo-3-chloropropane	-	< 0.01	< 0.01
1,2-Dichloroethane	-	< 0.001	< 0.001
1,2-Dichloropropane	-	< 0.01	< 0.01
1,3-Butadiene	0.23	0.24	+ 0.01
1,3-Dichloropropene	-	< 0.01	< 0.01
1,4-Dichlorobenzene	-	< 0.01	< 0.01
2,2,4-Trimethylpentane	0.54	1.41	+ 0.87
Acetaldehyde	-	0.14	+ 0.14
Acrelein	-	0.081	+ 0.081
Benzene	11.89	15.11	+ 3.22
Carbon Disulfide	-	0.30	+ 0.30
Carbon Tetrachloride	-	< 0.01	< 0.01
Chlorobenzene	-	< 0.001	< 0.001
Chloroethane	-	< 0.01	< 0.01
Chloroform	-	< 0.01	< 0.01
Cresol	-	0.41	+ 0.41
Cumene	0.35	0.41	+ 0.06
Cyanide Compounds	-	0.34	+ 0.34
Ethyl Benzene	3.73	3.74	+ 0.01

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VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Formaldehyde	1.39	2.02	+ 0.63
Hydrogen Cyanide	-	0.80	+ 0.80
Methanol	12.59	14.45	+ 1.86
Methyl Tertiary Butyl Ether	14.22	< 0.01	- 14.22
Methyl Bromide	-	0.01	+ 0.01
Methyl Ethyl Kelone	-	< 0.01	< 0.01
Methyl isobutyl Ketone	-	< 0.01	< 0.01
n-Butyl Alcohol	-	< 0.01	< 0.01
n-Hexane	15.88	23.13	+ 7.25
Naphthalene	0.42	6.80	+ 6.38
Nitrobenzene	< 0.01	< 0.01	-
Phenol	-	0.79	+ 0.79
Polynuclear Aromatic Hydrocarbons	1.18	0.921	- 0.259
Pyridine	< 0.01	< 0.01	-
Styrene	-	< 0.01	< 0.01
Toluene	16.21	16.10	- 0.11
Trichloroethylene	-	< 0.01	< 0.01
Vinyl Chloride	-	< 0.01	< 0.01
Vinylidene Chloride	-	< 0.01	< 0.01
Xylene (mixed isomers)	21.19	14.79	- 6.40
<b>Total</b>	<b>99.82</b>	<b>101.99</b>	<b>+ 2.17</b>

Other VOC (TPY): 1,113.47

#### IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Along with this permit renewal and modification, a Prevention of Significant Deterioration (PSD) permit review is performed to consolidate all the existing PSD permits for this facility.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

#### V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would

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have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, and in the [local newspaper], on [date]. The public notice was also sent to persons included in the LDEQ mailing list on [date]. The proposed permit was submitted to US EPA Region VI on [date]. All comments will be considered prior to a final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the facility were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

**VIII. General Condition XVII Activities**

Work Activity	Schedule	Emission Rates – tons/year
FCCU Air Heating (H-4202)	1 time/yr	PM <sub>10</sub> : 0.03; SO <sub>2</sub> : 0.10; NO <sub>x</sub> : 0.69; CO: 0.30; VOC: 0.02
Complex I Process Unit Sampling	32,500 times/yr	VOC: 4.06
Complex I Draining Compressor Knockout Drums	5,000 times/yr	VOC: 1.25
Complex I Draining Sight Glasses, Float Columns, Level Indicators	12,000 times/yr	VOC: 0.30
Complex I Bleeding Emergency Shut-off and Vent Valves	100 times/yr	VOC: < 0.01
Complex I Replacement or Cleaning of Filters/Dryers	125 times/yr	VOC: 0.16
Complex I Replacement of Catalyst in Reformer/Polymerization Reactors	42 times/yr	PM <sub>10</sub> : 0.52; VOC: 0.11
Complex I Prepare for Maintenance Towers/Vessels /Reactors	34 times/yr	VOC: 2.84
Complex I Prepare for Maintenance Heaters /Exchangers/Pumps/Compressors/Pipelines	1,200 times/yr	VOC: 2.40
Complex I Prepare for Maintenance Valves /Instruments	3,666 times/yr	VOC: 0.62
Complex I Opening Towers/Vessels /Reactors/LPG Railcars	67 times/yr	VOC: 0.57

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Work Activity	Schedule	Emission Rates – tons/year
Complex I Opening Heaters/Exchangers /Pumps/Compressors Pipelines/Sumps /Junction Boxes/Oil Water Separator	1,167 times/yr	VOC: 0.97
Complex I Equipment Cleaning	500 times/yr	VOC 0.63
Complex I Heater Decoking	1 time/yr	CO: 0.03; VOC: 0.03
Complex II Process Unit Sampling	32,500 times/yr	VOC: 4.06
Complex II Draining Compressor Knockout Drums	5,000 times/yr	VOC: 1.25
Complex II Draining Sight Glasses/Float Columns/ Level Indicators	12,000 times/yr	VOC: 0.30
Complex II Bleeding Emergency Shut-off and Vent Valves	100 times/yr	VOC: < 0.01
Complex II Replacement or Cleaning of Filters/Dryers	125 times/yr	VOC: 0.16
Complex II Replacement of Catalyst in Reformer/Polymerization Reactors	42 times/yr	PM <sub>10</sub> : 0.52; VOC: 0.11
Complex II Solids Loading/Unloading Pneumatic Trucks	80 times/yr	PM <sub>10</sub> : 0.20
Complex II Fresh Catalyst Truck Unloading	105 times/yr	PM <sub>10</sub> : 3.94
Complex II Catalyst Fines Hopper Dumping	105 times/yr	PM <sub>10</sub> : 3.94
Complex II Prepare for Maintenance Heaters /Exchangers/Pumps/Compressors/Pipelines	1,200 times/yr	VOC: 2.40
Complex II Prepare for Maintenance Towers/Vessels/Reactors	34 times/yr	VOC: 2.84
Complex II Opening Towers/Vessels /Reactors/LPG Railcars	67 times/yr	VOC: 0.57
Complex II Prepare for Maintenance Valves /Instruments	3,666 times/yr	VOC: 0.62
Complex II Opening Heaters/Exchangers /Pumps/Compressors Pipelines/Sumps /Junction Boxes/Oil Water Separator	1,167 times/yr	VOC: 0.97
Complex II Equipment Cleaning	500 times/yr	VOC 0.63
Complex II Heater Decoking	1 time/yr	CO: 0.03; VOC: 0.03
Complex III Tank Sampling and Gauging	15,000 times/yr	VOC: 3.75
Complex III Barge Sampling and Gauging	2,000 times/yr	VOC: 0.50; H <sub>2</sub> S: 0.05
Complex III Truck Loading/Unloading Line Disconnection	19,000 times/yr	VOC: 0.95
Complex III LPG Loading Line Disconnection	11,000 times/yr	VOC: 0.55
Complex III Dock Loading/Unloading Loading Arms/Dock Hoses	2,000 times/yr	VOC: 0.50
Complex III Prepare for Maintenance Vessels/LPG Railcars	34 times/yr	VOC: 2.84
Complex III Prepare for Maintenance Heaters /Exchangers/Pumps/Compressors /Pipelines	900 times/yr	VOC: 1.35
Complex III Prepare for Maintenance Valves/Instruments	3,666 times/yr	VOC: 0.62
Complex III Opening Towers/Vessels /Reactors/LPG Railcars	67 times/yr	VOC: 0.57

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Work Activity	Schedule	Emission Rates – tons/year
Complex III Opening Heaters/Exchangers /Pumps/Compressors Pipelines/Sumps /Junction Boxes/Oil Water Separator	1,167 times/yr	VOC: 0.97
Complex III Sludge Removal	1 time/yr	VOC: 4.98
FRAC Tanks for Cleanout/Maintenance	-	VOC: 2.92

**IX. Insignificant Activities**

ID No.	Description	Citation
20TK202	C2001 Degassing Tank with Heater (12 gal.)	LAC 33:III.501.B.5.A.2
20TK203	Slop Oil (240 gal.)	LAC 33:III.501.B.5.A.2
23TK242	Slop Oil (110 gal.)	LAC 33:III.501.B.5.A.2
42TK425	Sponge Oil Anti-Foam Tank (200 gal.)	LAC 33:III.501.B.5.A.2
42TK440	Defoamer (200 gal.)	LAC 33:III.501.B.5.A.2
20TK201	C2001 Main Oil Reservoir (250 gal.)	LAC 33:III.501.B.5.A.3
20TK204	C2001 New Oil Make-Up Tank (500 gal.)	LAC 33:III.501.B.5.A.3
20TK209	Chemical Injection Tank to Reformer (250 gal.)	LAC 33:III.501.B.5.A.3
23TK233	Crude O/H Neutralizer (1,000 gal.)	LAC 33:III.501.B.5.A.3
23TK234	Crude O/H Filmer (1,000 gal.)	LAC 33:III.501.B.5.A.3
23TK235	Crude Desalter Emulsion Breaker (2,500 gal.)	LAC 33:III.501.B.5.A.3
23TK237	Crude/Diesel Pourpoint (4,000 gal.)	LAC 33:III.501.B.5.A.3
23TK239	Slop Oil (320 gal.)	LAC 33:III.501.B.5.A.3
23TK240	SWS pH Control – Acetic Acid Injection (470 gal.)	LAC 33:III.501.B.5.A.3
40TK401	Poly Gasoline Inhibitor Tank (550 gal.)	LAC 33:III.501.B.5.A.3
42TK421	LCO Color Stabilizer Tank (2,000 gal.)	LAC 33:III.501.B.5.A.3
42TK422	Desalter Emulsion Tank (1,000 gal.)	LAC 33:III.501.B.5.A.3
42TK423	Fresh Amine Storage (2,000 gal.)	LAC 33:III.501.B.5.A.3
42TK426	Lube Oil Storage Tank (400 gal.)	LAC 33:III.501.B.5.A.3
42TK427	Spent Oil Lube Tank (567 gal.)	LAC 33:III.501.B.5.A.3
42TK420	Filming Amines (2,000 gal.)	LAC 33:III.501.B.5.A.3
42TK428V	Passivator Additive (Vendor Owned) (1,000 gal.)	LAC 33:III.501.B.5.A.3
42TK430V	Nalco/Exxon 1000 gal Antifoulant Tank - North (Vendor Owned) (1,000 gal.)	LAC 33:III.501.B.5.A.3
42TK431V	Nalco/Exxon 1000 gal Antifoulant Tank - South (Vendor Owned) (1,000 gal.)	LAC 33:III.501.B.5.A.3
42TK432	Wet Gas Compressor Lube Oil Reservoir (450 gal.)	LAC 33:III.501.B.5.A.3
42TK433	A Air Blower Lube Oil Reservoir (800 gal.)	LAC 33:III.501.B.5.A.3
42TK434	B Air Blower Lube Oil Reservoir (800 gal.)	LAC 33:III.501.B.5.A.3
42TK435	Slurry Antifoulant Tank (2,000 gal.)	LAC 33:III.501.B.5.A.3
42TK436	Desalter Washwater Tank (570 gal.)	LAC 33:III.501.B.5.A.3
42TK437	FCC Desalter Wetting agent (1,000 gal.)	LAC 33:III.501.B.5.A.3
42TK438	Amine Solvent Antifoam (350 gal. tote)	LAC 33:III.501.B.5.A.3
42TK442	Slop Oil (360 gal.)	LAC 33:III.501.B.5.A.3
79TK795	Slop Oil (240 gal.)	LAC 33:III.501.B.5.A.2
79TK796	Slop Oil (375 gal.)	LAC 33:III.501.B.5.A.3

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ID No.	Description	Citation
79TK797	Slop Oil (375 gal.)	LAC 33:III.501.B.5.A.3
80TK1427	BFW Oxygen Scavenger (1,000 gal.)	LAC 33:III.501.B.5.A.3
80TK1428	BFW Hardness Dispersant (1,000 gal.)	LAC 33:III.501.B.5.A.3
80TK1429	Cooling Tower Chemicals (1,050 gal.)	LAC 33:III.501.B.5.A.3
80TK1431	Emergency Cooling Water Diesel Tank (500 gal.)	LAC 33:III.501.B.5.A.3
80TK1432	Emergency Generator Diesel Tank (250 gal.)	LAC 33:III.501.B.5.A.3
80TK1434V	CT Deposit Penetrant Chemical Additive (Vendor Owned) (400 gal.)	LAC 33:III.501.B.5.A.3
82TK804	BFW Oxygen Scavenger (1,000 gal.)	LAC 33:III.501.B.5.A.3
82TK805	BFW Hardness Dispersant (1,000 gal.)	LAC 33:III.501.B.5.A.3
82TK806	Cooling Tower Chemical - Corrosion Inhibitor (1,025 gal.)	LAC 33:III.501.B.5.A.3
82TK808	Diesel Fuel Tank for FCCU Emergency Generator (1,354 gal.)	LAC 33:III.501.B.5.A.3
82-TK811V	Cooling Water Surfactant Chemical Tank (400 gal.)	LAC 33:III.501.B.5.A.3
90TK905	Corrosion Inhibitor Tank (2,000 gal.)	LAC 33:III.501.B.5.A.3
90TK908	Diesel Tank (500 gal.)	LAC 33:III.501.B.5.A.3
90TK910	Diesel Tank (6,000 gal.)	LAC 33:III.501.B.5.A.3
99TK853	Caustic Day Tank (1,050 gal.)	LAC 33:III.501.B.5.A.3
99TK873	Polymer Storage Tank (2,400 gal.)	LAC 33:III.501.B.5.A.3
99TK874	Clarification Aid (1,000 gal.)	LAC 33:III.501.B.5.A.3
99TK875	Soda Ash Hopper (385 gal.)	LAC 33:III.501.B.5.A.3
99TK992	Wastewater Antifoam (385 gal.)	LAC 33:III.501.B.5.A.3
99TK994	Hydrogen Peroxide Tank (470 gal.)	LAC 33:III.501.B.5.A.3
90TK911	Slop Tank (Dock 3) (840 gal.)	LAC 33:III.501.B.5.A.3
90TK912	Slop Tank (Dock 4) (840 gal.)	LAC 33:III.501.B.5.A.3
IA-1	Diesel Maintenance Tanks (Skid Mounted) (3 x 1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-2	Diesel Maintenance Tanks (Skid Mounted) (3 x 500 gal.)	LAC 33:III.501.B.5.A.3
IA-3	Chemical Tanks (6 x 1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-4	Chemical Tanks (6 x 1,500 gal.)	LAC 33:III.501.B.5.A.3
IA-5	Tanks for Cleaning/Turnaround Activities (4 x <10,000 gal.)	LAC 33:III.501.B.5.A.3
90TK913	Diesel Tank at Dock 4 (500 gal.)	LAC 33:III.501.B.5.A.3
IA-9	Liquid Soap Tank (1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-10	Liquid Soap Tank (1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-11	Microbial Agent Tank - Cooling Tower (280 gal. tote)	LAC 33:III.501.B.5.A.3
IA-12	Diesel Tank (1000 gal.)	LAC 33:III.501.B.5.A.3
IA-13	Antifoulant Tank (400 gal.)	LAC 33:III.501.B.5.A.3
IA-14	Deposit Control Agent Tank (380 gal.)	LAC 33:III.501.B.5.A.3
IA-15	Emulsion Breaker (2,500 gal.)	LAC 33:III.501.B.5.A.3
IA-17	Citric Acid Tank (330 gal. tote)	LAC 33:III.501.B.5.A.3
IA-18	Antifoulant Tank (280 gal. tote bin)	LAC 33:III.501.B.5.A.3
IA-19	Emulsion Breaker (280 gal. tote)	LAC 33:III.501.B.5.A.3
IA-20	Microbial Agent Tank (280 gal. tote @ CT)	LAC 33:III.501.B.5.A.3
IA-21	Disodium Phosphate Tank (330 gal. tote)	LAC 33:III.501.B.5.A.3
IA-22	Antifoam Tank (280 gal. tote)	LAC 33:III.501.B.5.A.3
IA-23	Flocculant Tank (330 gal. tote)	LAC 33:III.501.B.5.A.3
IA-24	Fuel Dehazer Tank (280 gal. tote bin)	LAC 33:III.501.B.5.A.3
IA-25	Lab Slop Oil Tank (1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-26	Portable Diesel Tank on Trailer (300 gal.)	LAC 33:III.501.B.5.A.3

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ID No.	Description	Citation
IA-28	Diesel Tank (1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-29	Diesel Tank (1,000 gal.)	LAC 33:III.501.B.5.A.3
IA-30	Antifoulant Tank (280 gal. tote)	LAC 33:III.501.B.5.A.3
90TK914	Slop Oil Tank at Dock 5 (840 gal.)	LAC 33:III.501.B.5.A.3
IA-32	Diesel Tank at Dock 1 Firewater Pump (500 gal.)	LAC 33:III.501.B.5.A.3
TK-102	Rust Liquid Soap (SWS) (1,000 gal.)	LAC 33:III.501.B.5.A.3
79TK798	Chemical Tank (550 gal.)	LAC 33:III.501.B.5.A.3
TK-2329	Rust Liquid Soap (cleaning slab) (1,000 gal.)	LAC 33:III.501.B.5.A.3
TK-2515	Rust Liquid Soap (crude unit) (1,000 gal.)	LAC 33:III.501.B.5.A.3
TK-2522	Rust Chem Additive (2095) (400 gal.)	LAC 33:III.501.B.5.A.3
TK-9908A	Bug Press Polymer Mix Tank (288 gal.)	LAC 33:III.501.B.5.A.3
TK-9908B	Bug Press Polymer Mix Tank (288 gal.)	LAC 33:III.501.B.5.A.3
23TK231	Water Tank for Jet Fuel Water Wash (1,000 gal.)	LAC 33:III.501.B.5.A.4
20TK206	Water Injection Tank (HDS) (245 gal.)	LAC 33:III.501.B.5.A.4
20TK208	Water Injection Tank to Reformer (60 gal.)	LAC 33:III.501.B.5.A.4
80TK0701	Raw Water Storage (630,000 gal.)	LAC 33:III.501.B.5.A.4
80TK1433	Sodium Hypochlorite Tank	LAC 33:III.501.B.5.A.4
82TK809	Raw Water Storage (420,000 gal.)	LAC 33:III.501.B.5.A.4
82TK820	Deminerlized Water (126,000 gal.)	LAC 33:III.501.B.5.A.4
82TK826	Deionizer Neutralization Tank (40,000 gal.)	LAC 33:III.501.B.5.A.4
82TK810	Force Draft Aerator - Demin Skid No. 1 (2,009 gal.)	LAC 33:III.501.B.5.A.4
82TK828	Force Draft Aerator - Demin Skid No. 2 (1,050 gal.)	LAC 33:III.501.B.5.A.4
IA-7	Raw Water Tank at Dock 1 (157 gal.)	LAC 33:III.501.B.5.A.4
IA-16	Demin Water (250 gal. tote)	LAC 33:III.501.B.5.A.4
IA-8	Emissions from Laboratory Equipment/Vents	LAC 33:III.501.B.5.A.6
IA-33	Drum Washing ( $\leq 55$ gal., $<3\%$ full)	LAC 33:III.501.B.5.A.7
21-79	Back-up Heater H-2302 (204.5 MM BTU/hr)	LAC 33:III.501.B.5.B.32
23TK232	Jet A Caustic Mix Tank (4,000 gal.)	LAC 33:III.501.B.5.B.40
42TK370	Caustic Storage Tank (2,850 gal.)	LAC 33:III.501.B.5.B.40
80TK1425	Caustic Tank for Reformer Regeneration (4,000 gal.)	LAC 33:III.501.B.5.B.40
82TK801	Caustic Supply (21,000 gal.)	LAC 33:III.501.B.5.B.40
82TK802	Dilute Caustic (12,600 gal.)	LAC 33:III.501.B.5.B.40
82TK825	Caustic Day Tank (400 gal.)	LAC 33:III.501.B.5.B.40
82TK827	Fresh 10 Baume Caustic Storage Tank (5,250 gal.)	LAC 33:III.501.B.5.B.40
35TK25-2	ATS Storage Tank (1,050,000 gal.)	LAC 33:III.501.B.5.D
35TK701	ATS Day Tank (8,400 gal.)	LAC 33:III.501.B.5.D
35TK702	ATS Day Tank (8,400 gal.)	LAC 33:III.501.B.5.D
35TK703	ATS Slop Tank (40,750 gal.)	LAC 33:III.501.B.5.D
35TK705	Sulfur Storage (27,300 gal.)	LAC 33:III.501.B.5.D
82TK821	Sulfuric Acid (7,150 gal.)	LAC 33:III.501.B.5.D
FRAC TKS 1	Frac Tanks (3) - Dewatering Crude (21,000 gal each)	LAC 33:III.501.B.5.D
FRAC TKS 2	Frac Tanks (5) - Tank Cleanout (21,000 gal each)	LAC 33:III.501.B.5.D

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Krotz Springs Refinery  
 Agency Interest No. 3116  
 Alon Refining Krotz Springs, Inc.  
 Krotz Springs, St. Landry Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.	Description	LAC 33:III. Chapter																			
		5 <sup>A</sup>	9	11	13	15	17	2103	2107	2108	2111	2115	2121	2137	2141	29*	51*	53	56	59	
UNF001	Krotz Springs Refinery	1	1	1																	
ARE001	4-77: Wastewater Collection and Treatment System	1																			
ARE002	1-05: Startup and Shutdown																				
ARE003																					
ARE005	1-08 - Site Remediation (Transfer System, Tanks 903, 917, 918, 925)																				
EQT023	1-76: Tank 30-3						3														
EQT024	2-76: Tank 30-4						3														
EQT025	3-76: Tank 55-1						3														
EQT026	1-78: Crude Reformer (H-2001)			1	1	1															
EQT027	2-78: Hydrotreater Charge Heater (H-2003)			1	1	3															
EQT028	3-78: Hydrotreater Stabilizer Reboiler (H-2004)			1	1	3															
EQT029	4-78: Reformer Stabilizer Reboiler (H-2002)			1	1	3															
EQT030	7-78: Steam Boiler (B-8001)			1	1	3															
EQT031	8-78: Crude Unit Flare			1	1	3															
EQT032	9-78: Tank 15-1						1														
EQT033	10-78: Tank 15-2						1														
EQT034	15-78: Tank 30-5						1														
EQT035	16-78: Tank 30-6						1														
EQT036	17-78: Tank 30-7						1														
EQT037	18-78: Tank 30-8						1														
EQT038	20-78: Tank 5-1						3														
EQT039	21-78: Tank 55-2						1														
EQT040	22-78: Tank 55-3						1														
EQT041	23-78: Tank 55-4						1														
EQT042	24-78: Tank 55-5						1														
EQT043	25-78: Tank 55-6						3														

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ID No.	Description	LAC 33:III. Chapter																		
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EQT044	1-79: Tank 55-7																			
EQT045	2-79: Tank 80-1																			
EQT046	3-79: Tank 80-2																			
EQT047	4-79: Tank 80-3																			
EQT048	5-79: Tank 80-4																			
EQT049	6-79: Tank 80-5																			
EQT050	7-79: Tank 80-6																			
EQT051	8-79: Tank 80-7																			
EQT052	9-79: Tank 80-8																			
EQT053	10-79: Tank 80-9																			
EQT054	11-79: Tank 80-10																			
EQT055	12-79: Tank 100-1																			
EQT056	13-79: Tank 100-2																			
EQT057	14-79: Tank 125-1																			
EQT058	15-79: Tank 100-4																			
EQT059	17-79: Tank 150-1																			
EQT060	18-79: Tank 150-2																			
EQT061	20-79: Crude Heater (H-2301)			1	1	1														
EQT062	23-79: Dock 3 Loading																			
EQT063	24-79: Dock 4 Loading																			
EQT064	1-81: Tank 55-8																			
EQT065	2-81: Tank 55-9																			
EQT066	3-81: Tank 55-10																			
EQT067	28-81: Tank 100-5																			
EQT068	29-81: Tank 100-6																			
EQT069	54-81: Cooling Towers (CT-8206 & 8006)																			
EQT071	1-85: Fluid Catalytic Cracking Unit				1	1	3													
EQT072	2-85: Ammonium Thiosulfate Unit																			
EQT073	3-85: FCCU Change Heater (H-4201)				1	1	1													
EQT074	5-85: FCC Unit Flare				1	1	1													

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X.	Table 1. Applicable Louisiana and Federal Air Quality Requirements																					
	ID No.	Description	LAC 33:III. Chapter																			
			5 <sup>A</sup>	9	11	13	15	17	2103	2107	2108	2111	2115	2121	2137	2141	29*	51*	53	56	59	
EQT075	6-85: Steam Boiler (B-8202)				1	1	1															
EQT076	7-85: Steam Boiler (B-8203)				1	1	1															
EQT077	9-85: Tank 80-11							3														
EQT078	10-85: Tank 80-12							3														
EQT079	11-85: Tank 80-15							3														
EQT080	12-85: Tank 80-14							3														
EQT081	13-85: Tank 55-11							3														
EQT082	14-85: Tank 55-12							3														
EQT083	15-85: Tank 25-1							3														
EQT085	17-85: Tank 80-13							3														
EQT086	18-85: Dock 5 Loading																					
EQT087	19-85: Steam Boiler (B-8002)				1	1	1															
EQT088	1-89: Truck Rack									2												
EQT089	1-91: Marine Loading Vapor Recovery				3	1	3				1											
EQT090	2-91: Tank 10-2								1													
EQT091	3-91: Tank 30-10								1													
EQT092	5-91: Steam Boiler (B-8003)				1	1	1															
EQT093	6-91: Isomerization Heater (H-1501)				1	1	3															
EQT094	11-91: Tank 10-1								3													
EQT095	12-91: Tank 10-6								3													
EQT096	13-91: Tank 30-9								1													
EQT097	14-91: Steam Boiler (B-8201)				1	1	1															
EQT098	2-92: Rail Car Loading									1												
EQT099	1-93: Tank 3-2								1													
EQT100	2-93: Tank 8-1							3														
EQT101	LPG: LPG Loading								1													
EQT102	C5: C5 Loading								1													
EQT103	TK236: Tank 236								1													
EQT104	TK420: Tank 420								3													
EQT105	TK424: Tank 424								3													

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.	Description	LAC 33:III. Chapter																		
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EQT106	TK907: Tank 907							1									1			
EQT107	TK909: Tank 909						1										1			
EQT108	1-04: GDU Heater (H-4501)		1	1	1															
EQT112	2-05: Reformer Regeneration/Scrubber Vent																			
EQT118	15-91 - Dock No. 1 Marine Loading									2										
EQT119	TK241 - Color Sbalizer Injection Tank																			
EQT120	TK790 - Red Dye to Low Sulfur Diesel Tank																			
EQT121	TK792 - HiTec 6560 Tank																			
EQT122	TK793 - HiTec 6576 Tank																			
EQT123	TK794 - HiTec 6560A Tank																			
EQT124	TK901 - Red Dye																			
EQT125	TK904 - Red Dye Additive Tank																			
EQT126	TK906 - Red Dye																			
EQT127	TK916 - Red Dye																			
EQT128	02-08 - GDU Emergency Generator G4501		1	1	3															
EQT129	03-08 - Admin Building Standby Generator G9802		1	1	3															
EQT130	04-08 - Building Emergency Generator G8301		1	1	3															
EQT131	05-08 - Pumper's Office Emergency Generator		1	1	3															
EQT132	06-08 - Wholesale Rack Emergency Generator		1	1	3															
EQT133	07-08 - Central Control Room Emergency Generator G9701		1	1	3															
EQT134	08-08 - FCC Backup Air Compressor		1	1	3															
EQT135	09-08 - Complex I Cooling Water Emergency Generator G8002C		1	1	3															
EQT136	10-08 - Complex I Emergency Generator G8003		1	1	3															
EQT137	11-08 - Complex II Emergency Generator G8205		1	1	3															
EQT138	12-08 - Dock I Fire Pump G9001		1	1	3															

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III, Chapter																		
		5 <sup>▲</sup>	9	11	13	15	17	2103	2107	2108	2111	2115	2121	2137	2141	29*	51*	53	56	59
EQT139	13-08 - Dock 4 Fire Pump G9002			1	1	3														
EQT140	14-08 - Guard Shack Emergency Generator			1	1	3														
FUG002	Fugitive Emissions Program (Part 1)									1										
FUG006	Fugitive Emissions Program (Part 2)									1										
FUG007	Fugitive Emissions Program (Part 3)									1										1
FUG008	Fugitive Emissions Program (Part 4)									1										

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 Krotz Springs, St. Landry Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.	40 CFR 60 NSPS										40 CFR 61					40 CFR 63 NESHAP					40 CFR								
	A	D	Db	Dc	J	K	Ka	Kb	XX	GGG	QQQ	IIII	JJJ	A	J	M	FF	A	Q	Y	CC	UUU	ZZZZ	GGGGG	64	68	82		
UNF001	1										1			1		1											1	1	
ARE001											1						2					2							
ARE002																													
ARE003																													
ARE005																									1				
EQ T023							3															2							
EQ T024							3															2							
EQ T025							3															2							
EQ T026							1																						
EQ T027							1																						
EQ T028							1																						
EQ T029							1																						
EQ T030						3	1																						
EQ T031	1						1															1							
EQ T032																						1							
EQ T033																						1							
EQ T034																						1							
EQ T035																						1							
EQ T036																						1							
EQ T037																						1							
EQ T038																						2							
EQ T039																						1							
EQ T040																						1							
EQ T041																						1							
EQ T042																						1							
EQ T043																						2							
EQ T044																						1							
EQ T045																						1							
EQ T046																						1							
EQ T047																						2							

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EQT048							1															2								
EQT049							1															1								
EQT050							1															2								
EQT051							1															2								
EQT052							1															1								
EQT053							1															1								
EQT054							1															1								
EQT055							1															2								
EQT056							1															1								
EQT057							1															1								
EQT058							1															1								
EQT059							1															1								
EQT060							1															2								
EQT061						1																	2							
EQT062																						2								
EQT063																						2								
EQT064							1															2								
EQT065							1															1								
EQT066							1															1								
EQT067							1															1								
EQT068							1															1								
EQT069							1															1								
EQT071						1																								
EQT072																														
EQT073																														
EQT074	1																			1										
EQT075		3																												
EQT076		3																												
EQT077							1																							
EQT078							1																							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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ID No.	40 CFR 60 NSPS											40 CFR 61					40 CFR 63 NESHAP					40 CFR							
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EQT079							1														2								
EQT080							3														2								
EQT081								3													2								
EQT082								3													2								
EQT083																					2								
EQT085								3													2	2							
EQT086																					2								
EQT087			3																										
EQT088									1													1							
EQT089																					1	1							
EQT090																					1								
EQT091																					1								
EQT092				2	1																								
EQT093																													
EQT094								3														2							
EQT095								3													2								
EQT096																					1								
EQT097				2	1																								
EQT098									3													3							
EQT099																						1							
EQT100																						2							
EQT101									3													3							
EQT102									3													3							
EQT103								3														2							
EQT104																						2							
EQT105																						2							
EQT106																						2							
EQT107																						2							
EQT108																						2							
EQT112																										1			

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EQT118																													
EQT119																													
EQT120																													
EQT121																													
EQT122																													
EQT123																													
EQT124																													
EQT125																													
EQT126																													
EQT127												3																	
EQT128																													
EQT129													3																
EQT130																													
EQT131												1																	
EQT132												3																	
EQT133												3																	
EQT134												3																	
EQT135												3																	
EQT136												3																	
EQT137												3																	
EQT138												3																	
EQT139												3																	
EQT140													3																
FUG002																													
FUG006																													
FUG007																													
FUG008																													

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Krotz Springs, St. Landry Parish, Louisiana**

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**Blank** – The regulations clearly do not apply to this type of emission source.

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 Krotz Springs, St. Landry Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		Notes
ID No.	Requirement	
ARE001 (Wastewater)	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640] 40 CFR 61 Subpart FF – Benzene Waste Operations [40 CFR 61.340]	Exempt – Group 2 wastewater streams only. Exempt – Total annual benzene quantity from facility waste < 10 Mg/yr.
EQT023, EQT024, EQT025 (Tanks)	NSPS Subpart K – Petroleum Liquids Storage Vessels [40 CFR 60.110] Storage of Volatile Organic Compounds [LAC 33:III.2103] 40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Does not apply - True vapor pressure < 1.0 psia. Exempt – Group 2 storage vessels.
EQT027, EQT028, EQT029, EQT030, EQT031, EQT093	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO <sub>2</sub> emissions from each point are less than 5 tons per year.
EQT030, EQT075, EQT076 (Boilers)	NSPS Subpart D – Steam Generators [40 CFR 60.40]	Does not apply – Heat input of each boiler is less than 250 MM BTU/hr.
EQT038 (IFR Tank)	NSPS Subpart K – Petroleum Liquids Storage Vessels [40 CFR 60.110] Storage of Volatile Organic Compounds [LAC 33:III.2103] 40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Does not apply – The storage tank does not store petroleum liquids. Exempt – Group 2 wastewater stream.
EQT043, EQT055, EQT060, EQT064 (EFR Tanks)	Storage of Volatile Organic Compounds [LAC 33:III.2103] 40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Does not apply - True vapor pressure < 1.5 psia. Exempt – Group 2 storage vessels.
EQT047, EQT048, EQT050, EQT051, EQT077, EQT079 (Fixed Roof Tanks)	Storage of Volatile Organic Compounds [LAC 33:III.2103] 40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Does not apply - True vapor pressure < 1.5 psia. Exempt – Group 2 storage vessels.
EQT062, EQT063, EQT086 (Dock Loading)	40 CFR 63 Subpart Y – Marine Tank Vessel Loading Operations [40 CFR 63.560] 40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Exempt – True vapor pressure < 1.5 psia.
EQT069 (Cooling Tower)	40 CFR Part 63, Subpart Q – Industrial Process Cooling Towers [40 CFR 63.400]	Does not apply – No Chromium-based water treatment chemicals are used after 9/8/1994.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		Notes
ID No.	Requirement	
EQT078, EQT081, EQT082, EQT085 (Tanks)	NSPS Subpart Kb – Volatile Organic Liquid (VOL) Storage Vessels [40 CFR 60.110b]	Does not apply – True vapor pressure < 0.5 psia.
	Storage of Volatile Organic Compounds [LAC 33:III.2103]	Exempt – Group 2 storage vessels.
	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Does not apply – The unit does not use a control device to achieve compliance with emission limitation or standard.
EQT071 (FCCU)	40 CFR 64 – Compliance Assurance Monitoring [40 CFR 64.2]	Does not apply – Constructed prior to the effective date (December 1987).
	Control of Emissions of CO (New Sources) [LAC 33:III.Chapter 17]	Does not apply – The storage tanks do not store petroleum liquids.
EQT080, EQT083, EQT100 (IFR Tanks)	NSPS Subpart Ka – Petroleum Liquids Storage Vessels [40 CFR 60.110a]	Exempt – Group 2 wastewater stream.
	Storage of Volatile Organic Compounds [LAC 33:III.2103]	
EQT087 (Boiler)	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	
	NSPS Subpart Db – Steam Generating Units [40 CFR 60.40b]	Does not apply - Heat input of each boiler is less than 100 MM BTU/hr.
EQT088 (Truck Rack)	VOC Loading [LAC 33:III.2107]	Exempt – Regulated under Chapter 21. Subchapter F
	Smoke from Flaring [LAC 33:III.1105.A]	Does not apply – Control loading emission only.
EQT089 (Flare)	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO <sub>2</sub> emissions are less than 5 tons per year.
	NSPS Subpart Dc – Steam Generating Units [40 CFR 60.40c]	Exempt – Burning refinery fuel (natural gas) only.
EQT092, EQT097 (Boilers)	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Exempt – Group 2 storage vessels.
	NSPS Subpart K – Petroleum Liquids Storage Vessels [40 CFR 60.110]	Does not apply – Constructed before 6/11/1973
EQT095 (Fixed Roof Tank)	Storage of Volatile Organic Compounds [LAC 33:III.2103]	Does not apply - True vapor pressure < 1.5 psia.
	NSPS Subpart K – Petroleum Liquids Storage Vessels [40 CFR 60.110]	Does not apply – True vapor pressure < 1.0 psia.
	Storage of Volatile Organic Compounds [LAC 33:III.2103]	
	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Exempt – Group 2 storage vessel.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Krotz Springs Refinery  
 Agency Interest No. 3116  
 Alon Refining Krotz Springs, Inc.  
 Krotz Springs, St. Landry Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		Notes
ID No.	Requirement	
EQT098, EQT101, EQT102 (Rail Car Loading)	NSPS Subpart XX – Bulk Gasoline Terminals [40 CFR 60.500]	Does not apply – Do not load gasoline.
	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.650]	
EQT103 (Fixed Roof Tank)	NSPS Subpart K – Petroleum Liquids Storage Vessels [40 CFR 60.110]	Does not apply – Tank capacity is less than 40,000 gallons. Exempt – Group 2 storage vessel.
	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	
EQT104, EQT105 (Fixed Roof Tanks)	NSPS Subpart Kb – Volatile Organic Liquid (VOL) Storage Vessels [40 CFR 60.110b]	Does not apply – Capacity of each tank is less than 75 cubic meters (19,815 gallons). Exempt – Group 2 storage vessels.
	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	
EQT106, EQT107 (Fixed Roof Tanks)	Storage of Volatile Organic Compounds [LAC 33:III.2103]	Does not apply - True vapor pressure < 1.5 psia. Does not apply – Capacity of each tank is less than 75 cubic meters (19,815 gallons). Exempt – Group 2 storage vessels.
	NSPS Subpart Kb – Volatile Organic Liquid (VOL) Storage Vessels [40 CFR 60.110b]	
EQT118 (Marine Loading)	40 CFR 63 Subpart CC – Petroleum Refineries [40 CFR 63.640]	Exempt – VOC true vapor pressure < 1.5 psia.
	Marine Loading Recovery [LAC 33:III.2108]	
EQT128 (Engine)	NSPS Subpart IIII – Stationary Compression Ignition Internal Combustion Engines [40 CFR 60.4200]	Does not apply – Emergency engine manufactured before April 1, 2006. Does not apply – SO <sub>2</sub> emissions are less than 5 tons per year.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	
EQT129 (Engine)	NSPS Subpart JJJJ – Stationary Spark Ignition Internal Combustion Engines [40 CFR 60.4230]	Does not apply – Emergency engine manufactured before January 1, 2009. Exempt – Less than 500 hp.
	NESHAP Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines [40 CFR 63.6585]	
EQT131 (Engine)	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO <sub>2</sub> emissions are less than 5 tons per year. Does not apply – SO <sub>2</sub> emissions are less than 5 tons per year.
	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Krotz Springs Refinery  
Agency Interest No. 3116  
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Krotz Springs, St. Landry Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		Notes
ID No.	Requirement	
EQ1130, EQ1132, EQ1133, EQ1134, EQ1135, EQ1136, EQ1137, EQ1138, EQ1139 (Engines)	NSPS Subpart IIII – Stationary Compression Ignition Internal Combustion Engines [40 CFR 60.4200]	Does not apply – Emergency engines manufactured before April 1, 2006.
	NESHAP Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines [40 CFR 63.6585]	Exempt – Existing emergency engines
	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO <sub>2</sub> emissions from each point are less than 5 tons per year.
	NSPS Subpart JJJJ – Stationary Spark Ignition Internal Combustion Engines [40 CFR 60.4230]	Does not apply – Emergency engine manufactured before January 1, 2009.
	NESHAP Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines [40 CFR 63.6585]	Exempt – Existing emergency engine
EQ1140 (Engine)	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO <sub>2</sub> emissions are less than 5 tons per year.
	Waste Gas Disposal [LAC 33:III.2115]	Does not apply – Vents are subject to the requirements of 40 CFR 63 Subpart CC.

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## APPENDIX A

### USE OF FLUE GAS OXYGEN MONITORS AS BACT FOR COMBUSTION CONTROLS

Within the time limits specified in Louisiana Air Emission Permit General Condition VIII (LAC 33:III.537), the permittee shall determine the emissions of nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) from the permitted combustion device in accordance with test methods and procedures set out in 40 CFR 60, Appendix A, Methods 7E\* and 10 respectively. These emission determinations shall be made at:

- 1) Maximum design capacity: and
- 2) Normal operating load.

The permittee shall install a continuous oxygen monitor in the flue gas of the permitted combustion device which meets the requirements of 40 CFR 60, Appendix B, Performance Specification 3. A range of excess air shall be established. The range shall be the oxygen content associated with NO<sub>x</sub> and CO emission rates in the PSD permit, or, where a PSD limit does not exist, the appropriate limit in this permit. The range shall be determined such that the appropriate NO<sub>x</sub> and CO limits are not exceeded.

The flue gas oxygen content shall be maintained within this range and alarms shall be set to sound when flue gas oxygen levels are outside of this range.

Should any combustion equipment modifications be made such as different type burners, combustion air relocation, fuel conversion, tube removal or addition, etc., emissions corrections as described above shall be conducted with 60 days of attaining full operation after such modification. Results of all emission determinations shall be sent to the permitting authority within 45 days after completion of the tests.

\* A properly installed and calibrated continuous NO<sub>x</sub> monitor may be substituted for Method 7E.

**INVENTORIES**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**  
**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

Subject Item Inventory:						
ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Krotz Springs Refinery</b>						
ARE 0001	4-77 - Wastewater Collection and Treatment System			600 gallons/min		8760 hr/yr
ARE 0002	1-05 - Startup and Shutdown					(None Specified)
ARE 0003	TK.CLEAN - Tank Cleaning					8760 hr/yr
EQT 0023	1-76 - Tank 30-3	1.26 million gallons			heavy petro materials	8760 hr/yr
EQT 0024	2-76 - Tank 30-4	1.26 million gallons			heavy petro materials	8760 hr/yr
EQT 0025	3-76 - Tank 55-1	2.31 million gallons			heavy petro materials	8760 hr/yr
EQT 0026	1-78 - Crude Reformer (H-2001)		160.2 MM BTU/hr	112.5 MM BTU/hr		8760 hr/yr
EQT 0027	2-78 - Hydrotreater Charge Heater (H-2003)		16.4 MM BTU/hr	15.3 MM BTU/hr		8760 hr/yr
EQT 0028	3-78 - Hydrotreater Stabilizer Reboiler (H-2004)		18.9 MM BTU/hr	13.4 MM BTU/hr		8760 hr/yr
EQT 0029	4-78 - Reformer Stabilizer Reboiler (H-2002)		16 MM BTU/hr	14.4 MM BTU/hr		8760 hr/yr
EQT 0030	7-78 - Steam Boiler (B-8001)		38.9 MM BTU/hr	32.4 MM BTU/hr		8760 hr/yr
EQT 0031	8-78 - Crude Unit Flare			32 MM BTU/hr		8760 hr/yr
EQT 0032	9-78 - Tank 15-1	.63 million gallons			petro feed/product materials	8760 hr/yr
EQT 0033	10-78 - Tank 15-2	.63 million gallons			petro feed/product materials	8760 hr/yr
EQT 0034	15-78 - Tank 30-5	1.26 million gallons			petro feed/product materials	8760 hr/yr
EQT 0035	16-78 - Tank 30-6	1.26 million gallons			petro feed/product materials	8760 hr/yr
EQT 0036	17-78 - Tank 30-7	1.26 million gallons			petro feed/product materials	8760 hr/yr
EQT 0037	18-78 - Tank 30-8	1.26 million gallons			petro feed/product materials	8760 hr/yr
EQT 0038	20-78 - Tank 5-1	21 million gallons			Wastewater	8760 hr/yr
EQT 0039	21-78 - Tank 55-2	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0040	22-78 - Tank 55-3	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0041	23-78 - Tank 55-4	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0042	24-78 - Tank 55-5	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0043	25-78 - Tank 55-6	2.31 million gallons			heavy petro materials	8760 hr/yr
EQT 0044	1-79 - Tank 55-7	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0045	2-79 - Tank 80-1	3.36 million gallons			petro feed/product materials	8760 hr/yr
EQT 0046	3-79 - Tank 80-2	3.36 million gallons			petro feed/product materials	8760 hr/yr

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Krotz Springs Refinery</b>						
EQT 0047	4-79 - Tank 80-3	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0048	5-79 - Tank 80-4	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0049	6-79 - Tank 80-5	3.36 million gallons			petro feed/product materials	8760 hr/yr
EQT 0050	7-79 - Tank 80-6	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0051	8-79 - Tank 80-7	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0052	9-79 - Tank 80-8	3.36 million gallons			petro feed/product materials	8760 hr/yr
EQT 0053	10-79 - Tank 80-9	3.36 million gallons			petro feed/product materials	8760 hr/yr
EQT 0054	11-79 - Tank 80-10	3.36 million gallons			petro feed/product materials	8760 hr/yr
EQT 0055	12-79 - Tank 100-1	4.2 million gallons			heavy petro materials	8760 hr/yr
EQT 0056	13-79 - Tank 100-2	4.2 million gallons			petro feed/product materials	8760 hr/yr
EQT 0057	14-79 - Tank 125-1	5.25 million gallons			petro feed/product materials	8760 hr/yr
EQT 0058	15-79 - Tank 100-4	4.2 million gallons			petro feed/product materials	8760 hr/yr
EQT 0059	17-79 - Tank 150-1	6.3 million gallons			petro feed/product materials	8760 hr/yr
EQT 0060	18-79 - Tank 150-2	6.3 million gallons			heavy petro materials	8760 hr/yr
EQT 0061	20-79 - Crude Heater (H-2301)		245.5 MM BTU/hr	204.5 MM BTU/hr		8760 hr/yr
EQT 0062	23-79 - Dock 3 Loading		4000 bbl/hr			8760 hr/yr
EQT 0063	24-79 - Dock 4 Loading		4000 bbl/hr			8760 hr/yr
EQT 0064	1-81 - Tank 55-8	2.31 million gallons			heavy petro materials	8760 hr/yr
EQT 0065	2-81 - Tank 55-9	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0066	3-81 - Tank 55-10	2.31 million gallons			petro feed/product materials	8760 hr/yr
EQT 0067	28-81 - Tank 100-5	4.2 million gallons			petro feed/product materials	8760 hr/yr
EQT 0068	29-81 - Tank 100-6	4.2 million gallons			petro feed/product materials	8760 hr/yr
EQT 0069	54-81 - Cooling Towers (CT-8206 & 8006)			51600 gallons/min		8760 hr/yr
EQT 0071	1-85 - Fluid Catalytic Cracking Unit			34000 bbl/day		8760 hr/yr
EQT 0072	2-85 - Ammonium Thiosulfate Unit			37200 scf/hr		8760 hr/yr
EQT 0073	3-85 - FCCU Charge Heater (H-4201)		53.4 MM BTU/hr	44.5 MM BTU/hr		8760 hr/yr
EQT 0074	5-85 - FCC Unit Flare			687 MM BTU/hr		8760 hr/yr
EQT 0075	6-85 - Steam Boiler (B-8202)		136 MM BTU/hr	113.3 MM BTU/hr		8760 hr/yr
EQT 0076	7-85 - Steam Boiler (B-8203)		190.3 MM BTU/hr	158.6 MM BTU/hr		8760 hr/yr
EQT 0077	9-85 - Tank 80-11	3.36 million gallons			heavy petro materials	8760 hr/yr

**INVENTORIES**

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**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Krotz Springs Refinery</b>						
EQT 0078	10-85 - Tank 80-12	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0079	11-85 - Tank 80-15	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0080	12-85 - Tank 80-14	3.36 million gallons			Wastewater	8760 hr/yr
EQT 0081	13-85 - Tank 55-11	2.31 million gallons			heavy petro materials	8760 hr/yr
EQT 0082	14-85 - Tank 55-12	2.31 million gallons			heavy petro materials	8760 hr/yr
EQT 0083	15-85 - Tank 25-1	1.05 million gallons			Wastewater	8760 hr/yr
EQT 0085	17-85 - Tank 80-13	3.36 million gallons			heavy petro materials	8760 hr/yr
EQT 0086	18-85 - Dock 5 Loading		3500 bbl/hr			8760 hr/yr
EQT 0087	19-85 - Steam Boiler (B-8002)		52.6 MM BTU/hr	43.8 MM BTU/hr		8760 hr/yr
EQT 0088	1-89 - Truck Rack			2565 gallons/min		8760 hr/yr
EQT 0089	1-91 - Marine Loading Vapor Recovery			24 MM BTU/hr		8760 hr/yr
EQT 0090	2-91 - Tank 10-2	.42 million gallons			petro feed/product materials	8760 hr/yr
EQT 0091	3-91 - Tank 30-10	1.26 million gallons			petro feed/product materials	8760 hr/yr
EQT 0092	5-91 - Steam Boiler (B-8003)		90 MM BTU/hr	75 MM BTU/hr		8760 hr/yr
EQT 0093	6-91 - Isomerization Heater (H-1501)		6 MM BTU/hr	5 MM BTU/hr		8760 hr/yr
EQT 0094	11-91 - Tank 10-1	.37 million gallons			heavy petro materials	8760 hr/yr
EQT 0095	12-91 - Tank 10-6	.42 million gallons			heavy petro materials	8760 hr/yr
EQT 0096	13-91 - Tank 30-9	1.26 million gallons			Methanol	8760 hr/yr
EQT 0097	14-91 - Steam Boiler (B-8201)		90 MM BTU/hr	75 MM BTU/hr		8760 hr/yr
EQT 0098	2-92 - Rail Car Loading			1200 bbl/hr		8760 hr/yr
EQT 0099	1-93 - Tank 3-2	126000 gallons			petro feed/product materials	8760 hr/yr
EQT 0100	2-93 - Tank 8-1	.84 million gallons			Wastewater	8760 hr/yr
EQT 0101	LPG - LPG Loading			6000 Tank cars/year		8760 hr/yr
EQT 0102	C5 - C5 Loading			100 Tank cars/year		8760 hr/yr
EQT 0103	TK236 - Tank 236	1058 gallons			PET 7210	8760 hr/yr
EQT 0104	TK420 - Tank 420	2522 gallons			Filming Amine	8760 hr/yr
EQT 0105	TK424 - Tank 424	1653 gallons			Naphtha	8760 hr/yr
EQT 0106	TK907 - Tank 907	12697 gallons			Slop Oil	8760 hr/yr
EQT 0107	TK909 - Tank 909	1653 gallons			Gasoline	8760 hr/yr
EQT 0108	1-04 - GDU Heater (H-4501)		112.5 MM BTU/hr	90 MM BTU/hr		8760 hr/yr
EQT 0112	2-05 - Reform Regeneration/Scrubber Vent		1667 ft <sup>3</sup> /min	1100 ft <sup>3</sup> /min		168 hr/yr

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
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 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Krotz Springs Refinery</b>						
EQT 0118	15-91 - Dock No. 1 Marine Loading		4286 bbl/hr			8760 hr/yr
EQT 0119	TK241 - Color Stabilizer Injection Tank	2009 gallons			Color Stabilizer	8760 hr/yr
EQT 0120	TK790 - Red Dye to Low Sulfur Diesel Tank	507 gallons			Red Dye	8760 hr/yr
EQT 0121	TK792 - HiTec 6560 Tank	1058 gallons			HiTec 6560	8760 hr/yr
EQT 0122	TK793 - HiTec 6576 Tank	2009 gallons			Conoco Exchange Additive	8760 hr/yr
EQT 0123	TK794 - HiTec 6560A Tank	2009 gallons			HiTec 6560A	8760 hr/yr
EQT 0124	TK901 - Red Dye	1058 gallons			Red Dye	8760 hr/yr
EQT 0125	TK904 - Red Dye Additive Tank	500 gallons			Red Dye	8760 hr/yr
EQT 0126	TK906 - Red Dye	2009 gallons			Red Dye	8760 hr/yr
EQT 0127	TK916 - Red Dye	1058 gallons			Red Dye	198 hr/yr
EQT 0128	02-08 - GDU Emergency Generator G4501		864 horsepower	864 horsepower		100 hr/yr
EQT 0129	03-08 - Admin Building Standby Generator G9802		147.7 horsepower	147.7 horsepower		
EQT 0130	04-08 - Building Emergency Generator G8301		54 horsepower	54 horsepower		148 hr/yr
EQT 0131	05-08 - Pumper's Office Emergency Generator		198 horsepower	198 horsepower		124 hr/yr
EQT 0132	06-08 - Wholesale Rack Emergency Generator		212 horsepower	212 horsepower		124 hr/yr
EQT 0133	07-08 - Central Control Room Emergency Generator G9701		267 horsepower	267 horsepower		198 hr/yr
EQT 0134	08-08 - FCC Backup Air Compressor		300 horsepower	300 horsepower		198 hr/yr
EQT 0135	09-08 - Complex I Cooling Water Emergency Generator G8002C		480 horsepower	480 horsepower		624 hr/yr
EQT 0136	10-08 - Complex I Emergency Generator G8003		425 horsepower	425 horsepower		624 hr/yr
EQT 0137	11-08 - Complex II Emergency Generator G8205		830 horsepower	830 horsepower		624 hr/yr
EQT 0138	12-08 - Dock 1 Fire Pump G9001		300 horsepower	300 horsepower		624 hr/yr
EQT 0139	13-08 - Dock 4 Fire Pump G9002		350 horsepower	350 horsepower		624 hr/yr
EQT 0140	14-08 - Guard Shack Emergency Generator		12.3 horsepower	12.3 horsepower		312 hr/yr
FUG 0002	FUG02 - Part 1 Fugitives					(None Specified)
FUG 0006	FUG06 - Part 2 Fugitives					(None Specified)
FUG 0007	FUG07 - Part 3 Fugitives					(None Specified)
FUG 0008	FUG08 - Part 4 Fugitives					(None Specified)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Krotz Springs Refinery</b>							
ARE 0001	4-77 - Wastewater Collection and Treatment System						
EQT 0024	2-76 - Tank 30-4						
EQT 0025	3-76 - Tank 55-1						
EOT 0026	1-78 - Crude Reformer (H-2001)	16.5	38152	7		95	550
EOT 0026	1-78 - Crude Reformer (H-2001)	16.5	38152	7		95	550

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Stack Information:							
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Krotz Springs Refinery</b>							
EQT 0027	2-78 - Hydrotreater Charge Heater (H-2003)	17.1	7244	3		75	950
EQT 0027	2-78 - Hydrotreater Charge Heater (H-2003)	17.1	7244	3		75	950
EQT 0028	3-78 - Hydrotreater Stabilizer Reboiler (H-2004)	13.4	5671	3		85	810
EQT 0028	3-78 - Hydrotreater Stabilizer Reboiler (H-2004)	13.4	5671	3		85	810
EQT 0029	4-78 - Reformer Stabilizer Reboiler (H-2002)	14.9	6334	3		85	850
EQT 0029	4-78 - Reformer Stabilizer Reboiler (H-2002)	14.9	6334	3		85	850
EQT 0030	7-78 - Steam Boiler (B-8001)	20.1	8540	3		45	325
EQT 0030	7-78 - Steam Boiler (B-8001)	20.1	8540	3		45	325
EQT 0031	8-78 - Crude Unit Flare	4.93	6.27	1.27		200	1800
EQT 0031	8-78 - Crude Unit Flare			4		200	1800
EQT 0032	9-78 - Tank 15-1						
EQT 0033	10-78 - Tank 15-2						
EQT 0034	15-78 - Tank 30-5						
EQT 0035	16-78 - Tank 30-6						
EQT 0036	17-78 - Tank 30-7	0	0	.33		31.9	70
EQT 0037	18-78 - Tank 30-8						
EQT 0038	20-78 - Tank 5-1	0	0	.33		30.92	70
EQT 0039	21-78 - Tank 55-2						
EQT 0040	22-78 - Tank 55-3						
EQT 0041	23-78 - Tank 55-4						
EQT 0042	24-78 - Tank 55-5						
EQT 0043	25-78 - Tank 55-6						
EQT 0044	1-79 - Tank 80-1						
EQT 0045	2-79 - Tank 80-1						
EQT 0046	3-79 - Tank 80-2	0	0	.33		32	70
EQT 0047	4-79 - Tank 80-3	0	0	.33		32	70
EQT 0048	5-79 - Tank 80-4						
EQT 0049	6-79 - Tank 80-5						
EQT 0050	7-79 - Tank 80-6	0	0	.33		32	70
EQT 0051	8-79 - Tank 80-7	0	0	.33		32	70
EQT 0052	9-79 - Tank 80-8						
EQT 0053	10-79 - Tank 80-9						

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Stack Information: ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Krotz Springs Refinery</b>							
EQT 0054	11-79 - Tank 80-10						
EQT 0055	12-79 - Tank 100-1						
EQT 0056	13-79 - Tank 100-2						
EQT 0057	14-79 - Tank 125-1						
EQT 0058	15-79 - Tank 100-4						
EQT 0059	17-79 - Tank 150-1						
EQT 0060	18-79 - Tank 150-2						
EQT 0061	20-79 - Crude Heater (H-2301)	19.8	59738	8		90	410
EQT 0061	20-79 - Crude Heater (H-2301)	19.8	59738	8		90	410
EQT 0062	23-79 - Dock 3 Loading						
EQT 0063	24-79 - Dock 4 Loading						
EQT 0064	1-81 - Tank 55-8						
EQT 0065	2-81 - Tank 55-9						
EQT 0066	3-81 - Tank 55-10						
EQT 0067	28-81 - Tank 100-5						
EQT 0068	29-81 - Tank 100-6						
EQT 0069	54-81 - Cooling Towers (CT-8206 & 8006)						
EQT 0071	1-85 - Fluid Catalytic Cracking Unit	138	104150	4		167	1700
EQT 0072	2-85 - Ammonium Thioculfate Unit	25	2650	1.5		100	110
EQT 0072	2-85 - Ammonium Thioculfate Unit	25	2650	1.5		100	110
EQT 0073	3-85 - FCCU Charge Heater (H-4201)	17	20145	5		80	900
EQT 0073	3-85 - FCCU Charge Heater (H-4201)	17	20145	5		80	900
EQT 0074	5-85 - FCC Unit Flare	4.53	7.18	1.58		200	1800
EQT 0074	5-85 - FCC Unit Flare					200	1800
EQT 0075	6-85 - Steam Boiler (B-8202)	32.3	30815	4.5		47	350
EQT 0075	6-85 - Steam Boiler (B-8202)	32.3	30815	4.5		47	350
EQT 0076	7-85 - Steam Boiler (B-8203)	36.6	43135	5		47	350
EQT 0076	7-85 - Steam Boiler (B-8203)	36.6	43135	5		47	350
EQT 0077	9-85 - Tank 80-11	0	0	33		32	70
EQT 0078	10-85 - Tank 80-12	0	0	33		32	70
EQT 0079	11-85 - Tank 80-15	0	0	33		32	70
EQT 0080	12-85 - Tank 80-14	0	0	33		31 85	70

**INVENTORIES**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**  
**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

Slack Information:						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet) Temperature (oF)
<b>Krotz Springs Refinery</b>						
EQT 0081	13-85 - Tank 55-11	0	0	.33		32 70
EQT 0082	14-85 - Tank 55-12	0	0	.33		32 70
EQT 0083	15-85 - Tank 25-1	0	0	.33		31.77 70
EQT 0085	17-85 - Tank 80-13	0	0	.33		32 70
EQT 0086	18-85 - Dock 5 Loading					
EQT 0087	19-85 - Steam Boiler (B-8002)	27.2	11545	2		25 325
EQT 0087	19-85 - Steam Boiler (B-8002)	27.2	11545	2		25 325
EQT 0088	1-89 - Truck Rack					
EQT 0089	1-91 - Marine Loading Vapor Recovery	50	284483	11		65 170
EQT 0090	2-91 - Tank 10-2	0	0	.33		31.69 70
EQT 0091	3-91 - Tank 30-10	0	0	.33		31.9 70
EQT 0092	5-91 - Steam Boiler (B-8003)	34.5	37058	4		45 350
EQT 0092	5-91 - Steam Boiler (B-8003)	34.5	37058	4		45 350
EQT 0093	6-91 - Isomerization Heater (H-1501)	25	7363	2.5		58 350
EQT 0093	6-91 - Isomerization Heater (H-1501)	25	7363	2.5		58 350
EQT 0094	11-91 - Tank 10-1	0	0	.33		34 70
EQT 0095	12-91 - Tank 10-6	0	0	.33		24 70
EQT 0096	13-91 - Tank 30-9	0	0	.33		31.9 70
EQT 0097	14-91 - Steam Boiler (B-8201)	32.9	35300	4.5		50 350
EQT 0097	14-91 - Steam Boiler (B-8201)	32.9	35300	4.5		50 350
EQT 0098	2-92 - Rail Car Loading					
EQT 0099	1-93 - Tank 3-2	0	0	.33		31.73 70
EQT 0100	2-93 - Tank 8-1	0	0	.33		31.85 70
EQT 0101	LPG - LPG Loading					
EQT 0102	C5 - C5 Loading					
EQT 0108	1-04 - GDU Heater (H-4501)	30	28628	4.5		50 350
EQT 0108	1-04 - GDU Heater (H-4501)	30	28628	4.5		50 350
EQT 0112	2-05 - Reformers Regeneration/Scrubber Vent	310	1100	.33		65 65
EQT 0112	2-05 - Reformers Regeneration/Scrubber Vent	310	1100	.33		65 65
GRP 0006	- Process Fugitives					

**Relationships:**

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

**Subject Item Groups:**

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	- EFR Storage Tanks
CRG 0002	Common Requirements Group	- Heaters and Boilers
CRG 0003	Common Requirements Group	- EFR Storage Tanks
CRG 0004	Common Requirements Group	- EFR Storage Tanks
CRG 0005	Common Requirements Group	- EFR Storage Tanks
CRG 0006	Common Requirements Group	- Storage Tanks
CRG 0007	Common Requirements Group	- Storage Tanks
CRG 0008	Common Requirements Group	- IFR Water Tanks
CRG 0009	Common Requirements Group	- IFR Storage Tanks
CRG 0010	Common Requirements Group	- Storage Tanks
CRG 0011	Common Requirements Group	- Dock Loading
CRG 0012	Common Requirements Group	- Heater, Boiler, and Reboilers
CRG 0013	Common Requirements Group	- Heaters and Boilers
CRG 0014	Common Requirements Group	- Truck/Rail Car Loading
CRG 0015	Common Requirements Group	- Internal Combustion Engines
GRP 0006	Equipment Group	- Process Fugitives
GRP 0007	Equipment Group	- Combustion Source Emission Cap
GRP 0008	Equipment Group	- Storage Tank Emission Cap
GRP 0009	Equipment Group	- Loading Sources Emission Cap
UNF 0001	Unit or Facility Wide	- Krotz Springs Refinery

**Group Membership:**

ID	Description	Member of Groups
EQT 0023	1-76 - Tank 30-3	CRG0000000001, GRP0000000008
EQT 0024	2-76 - Tank 30-4	CRG0000000001, GRP0000000008
EQT 0025	3-76 - Tank 55-1	CRG0000000001, GRP0000000008
EQT 0026	1-78 - Crude Reformer (H-2001)	CRG0000000002, GRP0000000007
EQT 0027	2-78 - Hydrotreater Charge Heater (H-2003)	CRG0000000012, GRP0000000007
EQT 0028	3-78 - Hydrotreater Stabilizer Reboiler (H-2004)	CRG0000000012, GRP0000000007
EQT 0029	4-78 - Reformer Stabilizer Reboiler (H-2002)	CRG0000000012, GRP0000000007
EQT 0030	7-78 - Steam Boiler (B-8001)	GRP0000000007
EQT 0032	9-78 - Tank 15-1	CRG0000000003, GRP0000000008
EQT 0033	10-78 - Tank 15-2	CRG0000000003, GRP0000000008
EQT 0034	15-78 - Tank 30-5	CRG0000000004, GRP0000000008
EQT 0035	16-78 - Tank 30-6	CRG0000000004, GRP0000000008
EQT 0036	17-78 - Tank 30-7	GRP0000000008
EQT 0037	18-78 - Tank 30-8	CRG0000000004, GRP0000000008
EQT 0038	20-78 - Tank 5-1	CRG0000000008, GRP0000000008

**INVENTORIES**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**  
**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

Group Membership:		ID	Description	Member of Groups
		EQT 0039	21-78 - Tank 55-2	CRG0000000003, GRP0000000008
		EQT 0040	22-78 - Tank 55-3	CRG0000000003, GRP0000000008
		EQT 0041	23-78 - Tank 55-4	CRG0000000003, GRP0000000008
		EQT 0042	24-78 - Tank 55-5	CRG0000000003, GRP0000000008
		EQT 0043	25-78 - Tank 55-6	CRG0000000005, GRP0000000008
		EQT 0044	1-79 - Tank 55-7	CRG0000000003, GRP0000000008
		EQT 0045	2-79 - Tank 80-1	CRG0000000003, GRP0000000008
		EQT 0046	3-79 - Tank 80-2	CRG0000000006, GRP0000000008
		EQT 0047	4-79 - Tank 80-3	CRG0000000003, GRP0000000008
		EQT 0048	5-79 - Tank 80-4	CRG0000000006, GRP0000000008
		EQT 0049	6-79 - Tank 80-5	CRG0000000003, GRP0000000008
		EQT 0050	7-79 - Tank 80-6	CRG0000000006, GRP0000000008
		EQT 0051	8-79 - Tank 80-7	CRG0000000006, GRP0000000008
		EQT 0052	9-79 - Tank 80-8	CRG0000000003, GRP0000000008
		EQT 0053	10-79 - Tank 80-9	CRG0000000003, GRP0000000008
		EQT 0054	11-79 - Tank 80-10	CRG0000000003, GRP0000000008
		EQT 0055	12-79 - Tank 100-1	CRG0000000005, GRP0000000008
		EQT 0056	13-79 - Tank 100-2	CRG0000000003, GRP0000000008
		EQT 0057	14-79 - Tank 125-1	CRG0000000003, GRP0000000008
		EQT 0058	15-79 - Tank 100-4	CRG0000000003, GRP0000000008
		EQT 0059	17-79 - Tank 150-1	CRG0000000003, GRP0000000008
		EQT 0060	18-79 - Tank 150-2	CRG0000000005, GRP0000000008
		EQT 0061	20-79 - Crude Heater (H-2301)	CRG0000000013, GRP0000000007
		EQT 0062	23-79 - Dock 3 Loading	CRG0000000011, GRP0000000009
		EQT 0063	24-79 - Dock 4 Loading	CRG0000000011, GRP0000000009
		EQT 0064	1-81 - Tank 55-8	CRG0000000005, GRP0000000008
		EQT 0065	2-81 - Tank 55-9	CRG0000000003, GRP0000000008
		EQT 0066	3-81 - Tank 55-10	CRG0000000003, GRP0000000008
		EQT 0067	28-81 - Tank 100-5	CRG0000000003, GRP0000000008
		EQT 0068	29-81 - Tank 100-6	CRG0000000003, GRP0000000008
		EQT 0073	3-85 - FCCU Charge Heater (H-4201)	CRG0000000002, GRP0000000007
		EQT 0075	6-85 - Steam Boiler (B-8202)	CRG0000000002, GRP0000000007
		EQT 0076	7-85 - Steam Boiler (B-8203)	CRG0000000002, GRP0000000007
		EQT 0077	9-85 - Tank 80-11	CRG0000000006, GRP0000000008
		EQT 0078	10-85 - Tank 80-12	CRG0000000006, GRP0000000008
		EQT 0079	11-85 - Tank 80-15	CRG0000000006, GRP0000000008
		EQT 0080	12-85 - Tank 80-14	CRG0000000008, GRP0000000008
		EQT 0081	13-85 - Tank 55-11	CRG0000000007, GRP0000000008
		EQT 0082	14-85 - Tank 55-12	CRG0000000007, GRP0000000008
		EQT 0083	15-85 - Tank 25-1	CRG0000000008, GRP0000000008
		EQT 0085	17-85 - Tank 80-13	CRG0000000007, GRP0000000008

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Group Membership:		ID	Description	Member of Groups
		EQT 0086	18-85 - Dock 5 Loading	CRG0000000011, GRP0000000000
		EQT 0087	19-85 - Steam Boiler (B-8002)	CRG0000000002, GRP0000000007
		EQT 0088	1-89 - Truck Rack	GRP0000000009
		EQT 0090	2-91 - Tank 10-2	CRG0000000009, GRP0000000008
		EQT 0091	3-91 - Tank 30-10	CRG0000000009, GRP0000000008
		EQT 0092	5-91 - Steam Boiler (B-8003)	CRG0000000013, GRP0000000007
		EQT 0093	6-91 - Isomerization Heater (H-1501)	GRP0000000007
		EQT 0094	11-91 - Tank 10-1	CRG0000000007, GRP0000000008
		EQT 0095	12-91 - Tank 10-6	CRG0000000007, GRP0000000008
		EQT 0096	13-91 - Tank 30-9	CRG0000000009, GRP0000000008
		EQT 0097	14-91 - Steam Boiler (B-8201)	CRG0000000013, GRP0000000007
		EQT 0098	2-92 - Rail Car Loading	CRG0000000014, GRP0000000009
		EQT 0099	1-93 - Tank 3-2	GRP0000000008
		EQT 0100	2-93 - Tank 8-1	CRG0000000008, GRP0000000008
		EQT 0101	LPG - LPG Loading	CRG0000000014, GRP0000000009
		EQT 0102	C5 - C5 Loading	CRG0000000014, GRP0000000009
		EQT 0103	TK236 - Tank 236	GRP0000000008
		EQT 0104	TK420 - Tank 420	GRP0000000008
		EQT 0105	TK424 - Tank 424	CRG0000000007, GRP0000000008
		EQT 0106	TK907 - Tank 907	CRG0000000010, GRP0000000008
		EQT 0107	TK909 - Tank 909	CRG0000000010, GRP0000000008
		EQT 0108	1-04 - GDU Heater (H-4501)	CRG0000000013, GRP0000000007
		EQT 0118	15-91 - Dock No. 1 Marine Loading	GRP0000000009
		EQT 0119	TK241 - Color Stabilizer Injection Tank	GRP0000000008
		EQT 0120	TK790 - Red Dye to Low Sulfur Diesel Tank	GRP0000000008
		EQT 0121	TK792 - HiTec 6560 Tank	GRP0000000008
		EQT 0122	TK793 - HiTec 6576 Tank	GRP0000000008
		EQT 0123	TK794 - HiTec 6560A Tank	GRP0000000008
		EQT 0124	TK901 - Red Dye	GRP0000000008
		EQT 0125	TK904 - Red Dye Additive Tank	GRP0000000008
		EQT 0126	TK906 - Red Dye	GRP0000000008
		EQT 0127	TK916 - Red Dye	GRP0000000008
		EQT 0130	04-08 - Building Emergency Generator G8301	CRG0000000015
		EQT 0132	06-08 - Wholesale Rack Emergency Generator	CRG0000000015
		EQT 0133	07-08 - Central Control Room Emergency Generator G9701	CRG0000000015
		EQT 0134	08-08 - FCC Backup Air Compressor	CRG0000000015
		EQT 0135	09-08 - Complex I Cooling Water Emergency Generator G8002C	CRG0000000015
		EQT 0136	10-08 - Complex I Emergency Generator G8003	CRG0000000015
		EQT 0137	11-08 - Complex II Emergency Generator G8205	CRG0000000015
		EQT 0138	12-08 - Dock 1 Fire Pump G9001	CRG0000000015
		EQT 0139	13-08 - Dock 4 Fire Pump G9002	CRG0000000015

**INVENTORIES**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

**Group Membership:**

ID	Description	Member of Groups
EQT 0140	14-08 - Guard Shack Emergency Generator	CRG00000000015
FUG 0002	FUG02 - Part 1 Fugitives	GRP00000000006
FUG 0006	FUG06 - Part 2 Fugitives	GRP00000000006
FUG 0007	FUG07 - Part 3 Fugitives	GRP00000000006
FUG 0008	FUG08 - Part 4 Fugitives	GRP00000000006

**NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group**

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0720	0720 Petroleum Refining (Rated Capacity)	85	M bbl/day

**SIC Codes:**

2911	Petroleum refining	AI 3116
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**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Krotz Springs Refinery															
ARE 0001 4-77															
ARE 0002 1-05	0.16	27.57	0.71	0.03	5.07	0.13	0.03	5.07	0.12	<0.01	0.75	0.02	2.75	17.79	12.06
ARE 0003 TK-CLEAN															
EQT 0026 1-78		13.19			24.20			1.19			6.55				117.43
EQT 0027 2-78		1.35			2.48			0.12			0.67				
EQT 0028 3-78		1.56			2.86			0.14			0.77				
EQT 0029 4-78		1.31			2.41			0.12			0.65				
EQT 0030 7-78		3.20			5.87			0.29			1.59				
EQT 0031 8-78	1.71	5.01	7.51	0.32	0.92	1.38	<0.01	<0.01	0.01	0.38	4.40	1.67	2.89	8.48	12.68
EQT 0033 10-78													0.03		0.12
EQT 0061 20-79		20.21			38.98			1.83			10.03			1.32	
EQT 0062 23-79														1.28	
EQT 0063 24-79														290.72	
EQT 0069 54-81														27.40	11.31
EQT 0071 1-85	36.52	104.27	160.00	34.82	69.95	152.52	31.05	50.51	136.00	187.00	233.24	816.69	2.40	3.00	10.50
EQT 0072 2-85	4.89	5.38	21.42	8.02	31.20	35.11				2.20	2.42	9.64			
EQT 0073 3-85		4.40			22.27			0.40			1.64			0.29	
EQT 0074 5-85	23.01	253.65	100.80	4.23	46.62	18.52	<0.01	<0.01	<0.01	20.30	500.62	88.90	32.81	362.58	143.69
EQT 0075 6-85		11.20			18.25			1.01			4.17			0.73	
EQT 0076 7-85		15.67			25.54			1.42			5.83			1.03	
EQT 0086 18-85														4.06	
EQT 0087 19-85		4.33			7.94			0.39			2.15			0.28	
EQT 0088 1-89														12.85	

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Krotz Springs Refinery</b>															
EQT 0089 1-91		11.16			3.05			0.29			0.43			20.45	
EQT 0092 5-91		7.41			13.59			0.67			3.67			0.49	
EQT 0093 9-91		0.49			0.91			0.45			0.25			0.03	
EQT 0097 14-91		7.41			12.08			0.67			2.76			0.49	
EQT 0098 2-92														9.46	
EQT 0101 LPG														0.06	
EQT 0102 C5														<0.01	
EQT 0108 1-04		9.27			3.77			0.84			3.45			0.34	
EQT 0112 2-05	69.46	69.46	2.50											2.32	0.08
EQT 0118 15-91														4.97	
EQT 0128 02-08	4.47	5.37	0.44	16.84	20.21	1.67	0.79	0.94	0.08	0.01	0.01	<0.01	0.47	0.57	0.05
EQT 0129 03-08	0.25	0.30	0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.24	0.29	0.01
EQT 0130 04-08	0.52	0.63	0.04	2.42	2.90	0.18	0.17	0.20	0.01	0.16	0.19	<0.01	0.20	0.24	0.01
EQT 0131 05-08	1.14	1.37	0.07	1.30	1.56	0.08	0.07	0.08	<0.01	0.40	0.48	0.02	0.49	0.59	0.03
EQT 0132 06-08	1.22	1.46	0.08	1.39	1.67	0.09	0.07	0.08	<0.01	0.41	0.49	0.03	0.51	0.62	0.03
EQT 0133 07-08	1.64	1.97	0.16	7.61	9.14	0.75	0.54	0.64	0.05	0.50	0.60	0.05	0.62	0.75	0.06
EQT 0134 08-08	5.62	6.74	0.56	4.53	5.44	0.45	0.25	0.30	0.02	0.64	0.77	0.06	2.15	2.58	0.21
EQT 0135 09-08	3.21	3.85	1.00	14.88	17.86	4.64	1.06	1.27	0.33	0.98	1.27	0.31	1.21	1.45	0.38
EQT 0136 10-08	2.84	3.41	0.89	13.18	15.81	4.11	0.94	1.12	0.29	0.87	1.05	0.27	1.07	1.28	0.33
EQT 0137 11-08	5.15	6.18	1.61	19.38	23.26	6.05	0.91	1.09	0.28	0.01	0.01	<0.01	0.55	0.65	0.17
EQT 0138 12-08	2.00	2.41	0.63	9.30	11.16	2.90	0.66	0.79	0.21	0.62	0.74	0.19	0.75	0.90	0.23
EQT 0139 13-08	2.34	2.81	0.73	10.85	13.02	3.39	0.77	0.92	0.24	0.72	0.86	0.22	0.88	1.05	0.27
EQT 0140 14-08	7.59	9.11	1.18	0.20	0.24	0.03	0.01	0.02	<0.01	0.01	0.01	<0.01	0.37	0.44	0.06

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Krotz Springs Refinery															
GRP 0006	0.01		0.03										144.30		632.04
GRP 0007	82.16		359.86	119.56		523.69	7.43		32.57		131.19		5.16		22.64
GRP 0008															56.56
GRP 0009	2.28		9.97	0.62		2.69	0.06		0.26		0.40		12.42		54.40

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0001 4-77	1,3-Butadiene	0.003	0.004	0.011
	2,2,4-Trimethylpentane	0.04	0.05	0.16
	Ammonia	3.92	5.49	17.19
	Benzene	1.79	2.51	7.84
	Cresol	0.03	0.04	0.12
	Cumene	<0.01	<0.01	0.01
	Ethyl benzene	0.25	0.35	1.09
	Formaldehyde	0.34	0.47	1.49
	Hydrogen sulfide	2.11	2.96	9.26
	Methanol	0.03	0.04	0.12
	Naphthalene	0.16	0.23	0.70
	Phenol	0.18	0.25	0.77
	Toluene	0.82	1.15	3.59
	Xylene (mixed isomers)	0.01	0.01	0.02
n-Hexane	0.04	0.06	0.18	
ARE 0002 1-05	1,3-Butadiene	<0.01	<0.01	<0.01
	2,2,4-Trimethylpentane	<0.01	1.52	<0.01
	Ammonia	<0.01	0.04	<0.01
	Benzene	0.02	0.10	0.08
	Cumene	<0.01	0.03	0.01
	Ethyl benzene	0.01	0.21	0.05
	Hydrogen sulfide	<0.01	0.11	<0.01
	Methanol	0.01	2.13	0.06
	Naphthalene	<0.01	0.05	0.01
	Polynuclear Aromatic Hydrocarbons	<0.01	0.01	0.01
	Toluene	0.05	0.50	0.23
	Xylene (mixed isomers)	0.07	1.03	0.29
	n-Hexane	0.04	2.38	0.16
ARE 0003 TK-CLEAN	2,2,4-Trimethylpentane	0.12		0.52
	Benzene	0.55		2.39
	Cumene	0.01		0.04
	Ethyl benzene	0.06		0.24
	Naphthalene	0.01		0.04

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0003 TK-CLEAN	Polynuclear Aromatic Hydrocarbons	<0.001		<0.001
	Toluene	0.48		2.12
	Xylene (mixed isomers)	0.52		2.28
	n-Hexane	1.76		7.71
ARE 0005 1-08	1,1,1-Trichloroethane	<0.01		<0.01
	1,1,2,2-Tetrachloroethane	<0.01		<0.01
	1,1,2-Trichloroethane	<0.01		<0.01
	1,1-Dichloroethane	<0.01		<0.01
	1,2-Dibromo-3-chloropropane	<0.01		<0.01
	1,2-Dichloroethane	<0.001		<0.001
	1,2-Dichloropropane	<0.01		<0.01
	1,3-Dichloropropene	<0.01		<0.01
	1,4-Dichlorobenzene	<0.01		<0.01
	Benzene	<0.01		<0.01
	Carbon disulfide	<0.01		<0.01
	Carbon tetrachloride	<0.01		<0.01
	Chlorobenzene	<0.001		<0.001
	Chloroethane	<0.01		<0.01
	Chloroform	<0.01		<0.01
	Dichloromethane	<0.01		<0.01
	Ethyl benzene	<0.01		<0.01
	Methyl Tertiary Butyl Ether	<0.01		<0.01
	Methyl bromide	<0.01		<0.01
	Methyl ethyl ketone	<0.01		<0.01
Methyl isobutyl ketone	<0.01		<0.01	
EQT 0026 1-78	Styrene	<0.01		<0.01
	Tetrachloroethylene	<0.01		<0.01
	Toluene	<0.01		<0.01
	Trichloroethylene	<0.01		<0.01
	Vinyl chloride	<0.01		<0.01
	Vinylidene chloride	<0.01		<0.01
	Xylene (mixed isomers)	<0.01		<0.01
	Acetaldehyde		<0.01	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0026 1-78	Acrolein		0.003	
	Benzene		0.01	
	Dichlorobenzene		<0.01	
	Ethyl benzene		<0.01	
	Formaldehyde		0.01	
	Hydrogen sulfide		0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.01	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.02	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.07	
EQT 0027 2-78	Acetaldehyde		<0.001	
	Acrolein		<0.001	
	Benzene		<0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.001	
	Formaldehyde		<0.001	
	Hydrogen sulfide		<0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	
	Phenol		<0.001	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
n-Hexane		0.01		
EQT 0028 3-78	Acetaldehyde		<0.01	
	Acrolein		<0.001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0028 3-78	Benzene		<0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Hydrogen sulfide		<0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.01	
EQT 0029 4-78	Acetaldehyde		<0.01	
	Acrolein		<0.001	
	Benzene		<0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Hydrogen sulfide		<0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.01	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		<0.01	
Xylene (mixed isomers)		<0.01		
n-Hexane		0.01		
EQT 0030 7-78	Acetaldehyde		<0.01	
	Acrolein		<0.001	
	Benzene		<0.01	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0030 7-78	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Hydrogen sulfide		<0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		<0.02	
EQT 0031 8-78	1,3-Butadiene	0.02	0.06	0.09
	Ammonia	<0.01	<0.01	<0.01
	Hydrogen sulfide	<0.01	0.05	0.02
	n-Hexane	0.34	1.01	1.51
EQT 0033 10-78	Benzene	<0.01		0.01
	Cumene	<0.01		<0.01
	Ethyl benzene	<0.01		<0.01
	Toluene	<0.01		0.01
	Xylene (mixed isomers)	<0.01		<0.01
	n-Hexane	<0.01		0.02
EQT 0061 20-79	Acetaldehyde		<0.01	
	Acrolein		0.004	
	Benzene		0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		0.01	
	Hydrogen sulfide		0.02	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.01	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 0061 20-79	Nickel (and compounds)		<0.001		
	Phenol		<0.01		
	Polynuclear Aromatic Hydrocarbons		<0.001		
	Toluene		0.04		
	Xylene (mixed isomers)		0.01		
	n-Hexane		0.10		
	EQT 0062 23-79	Benzene		0.10	
Cumene			<0.01		
Ethyl benzene			0.01		
Naphthalene			<0.01		
Polynuclear Aromatic Hydrocarbons			0.005		
Toluene			0.06		
Xylene (mixed isomers)			0.007		
n-Hexane			0.12		
EQT 0063 24-79		Ammonia		2.45	
		Benzene		1.21	
	Cumene		0.07		
	Ethyl benzene		0.53		
	Hydrogen sulfide		0.02		
	Naphthalene		0.02		
	Polynuclear Aromatic Hydrocarbons		0.003		
	Toluene		1.74		
	Xylene (mixed isomers)		3.63		
	n-Hexane		4.42		
EQT 0069 54-81	2,2,4-Trimethylpentane	0.03	0.04	0.12	
	Ammonia	0.05	0.06	0.22	
	Benzene	0.03	0.04	0.12	
	Chlorine	0.08	0.10	0.37	
	Ethyl benzene	0.03	0.04	0.12	
	Formaldehyde	0.03	0.04	0.12	
	Hydrogen sulfide	0.05	0.06	0.22	
	Methanol	0.03	0.04	0.12	
	Toluene	0.03	0.04	0.12	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0069 54-81	Xylene (mixed isomers)	0.03	0.04	0.12
	n-Hexane	0.03	0.04	0.12
EQT 0071 1-85	1,3-Butadiene	0.004	0.005	0.018
	Acetaldehyde	0.02	0.02	0.09
	Acrolein	0.002	0.002	0.007
	Ammonia	0.75	0.92	3.27
	Antimony (and compounds)	0.001	0.001	0.002
	Arsenic (and compounds)	0.001	0.001	0.002
	Barium (and compounds)	0.002	0.003	0.009
	Benzene	0.01	0.01	0.03
	Beryllium (Table 51.1)	<0.001	<0.001	0.001
	Cadmium (and compounds)	0.001	0.001	0.003
	Carbon disulfide	0.07	0.09	0.30
	Chlorine	0.02	0.03	0.09
	Chromium VI (and compounds)	0.001	0.001	0.005
	Cobalt compounds	0.001	0.001	0.005
	Copper (and compounds)	0.002	0.002	0.007
	Cyanide compounds	0.08	0.10	0.34
	Ethyl benzene	0.01	0.01	0.04
	Formaldehyde	0.04	0.05	0.18
	Hydrochloric acid	0.01	0.01	0.04
	Hydrogen cyanide	0.18	0.23	0.80
	Lead compounds	0.005	0.006	0.021
	Manganese (and compounds)	0.002	0.003	0.01
	Mercury (and compounds)	<0.001	<0.001	0.001
	Methyl bromide	0.003	0.004	0.01
	Naphthalene	<0.01	<0.01	<0.01
	Nickel (and compounds)	0.030	0.030	0.110
	Phenol	<0.01	<0.01	<0.01
	Polynuclear Aromatic Hydrocarbons	0.012	0.015	0.055
Selenium (and compounds)	0.003	0.003	0.011	
Sulfuric acid	3.36	4.20	14.70	
Toluene	<0.01	<0.01	0.01	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0071 1-85	Xylene (mixed isomers)	0.02	0.02	0.08
EQT 0072 2-85	Ammonia	0.03	0.03	0.12
EQT 0073 3-85	Acetaldehyde		<0.01	
	Acrolein		<0.001	
	Benzene		<0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Hydrogen sulfide		0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.01	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.02	
EQT 0074 5-85	1,3-Butadiene	<0.01	0.01	<0.01
	Ammonia	0.04	7.80	0.17
	Hydrogen sulfide	0.22	5.32	0.94
	n-Hexane	0.01	0.01	0.05
EQT 0075 6-85	Acetaldehyde		<0.01	
	Acrolein		0.002	
	Benzene		0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		0.01	
	Hydrogen sulfide		0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0075 6-85	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.02	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.06	
EQT 0076 7-85	Acetaldehyde		<0.01	
	Acrolein		0.003	
	Benzene		0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		0.01	
	Hydrogen sulfide		0.02	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.03	
	Xylene (mixed isomers)		0.01	
n-Hexane		0.08		
EQT 0086 18-85	Benzene		0.07	
	Cumene		<0.01	
	Ethyl benzene		0.05	
	Naphthalene		0.01	
	Polynuclear Aromatic Hydrocarbons		0.002	
	Toluene		0.28	
	Xylene (mixed isomers)		0.48	
	n-Hexane		0.17	
EQT 0087 19-85	Acetaldehyde		<0.01	
	Acrolein		<0.001	
	Benzene		<0.01	
	Dichlorobenzene		<0.001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc  
 Activity Number: PER20080013  
 Permit Number: 2600-00003-V2  
 Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0087 19-85	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Hydrogen sulfide		<0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.01	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.01	
EQT 0088 1-89	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.02	
	2,2,4-Trimethylpentane		0.002	
	Benzene		0.17	
	Cumene		0.02	
	Ethyl benzene		0.09	
	Naphthalene		0.02	
	Polynuclear Aromatic Hydrocarbons		0.002	
	Toluene		0.44	
	Xylene (mixed isomers)		0.93	
EQT 0089 1-91	n-Hexane		0.19	
	2,2,4-Trimethylpentane		0.001	
	Benzene		0.10	
	Cumene		<0.01	
	Ethyl benzene		0.01	
	Naphthalene		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
EQT 0092 5-91	Toluene		0.10	
	Xylene (mixed isomers)		0.04	
	n-Hexane		0.12	
	Acetaldehyde		0.001	
	Acrolein		0.002	
Benzene		0.01		

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0092 5-91	Dichlorobenzene		<0.001	
	Ethyl benzene		0.001	
	Formaldehyde		0.005	
	Hydrogen sulfide		0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	
	Phenol		<0.001	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.01	
	Xylene (mixed isomers)		0.002	
	n-Hexane		0.04	
EQT 0093 6-91	Acetaldehyde		<0.01	
	Acrolein		<0.001	
	Benzene		<0.01	
	Dichlorobenzene		<0.001	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Hydrogen sulfide		<0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
n-Hexane		<0.01		
EQT 0097 14-91	Acetaldehyde		<0.01	
	Acrolein		0.002	
	Benzene		0.01	
	Dichlorobenzene		<0.001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0097 14-91	Ethyl benzene		<0.01	
	Formaldehyde		0.01	
	Hydrogen sulfide		0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.001	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.01	
	Xylene (mixed isomers)		<0.01	
EQT 0101 LPG	n-Hexane		0.04	
	Ammonia		1.80	
	Hydrogen sulfide		0.02	
EQT 0108 1-04	Acetaldehyde		<0.01	
	Acrolein		0.002	
	Benzene		0.01	
	Dichlorobenzene		<0.01	
	Ethyl benzene		<0.01	
	Formaldehyde		0.01	
	Hydrogen sulfide		0.01	
	Lead compounds		<0.001	
	Mercury (and compounds)		<0.001	
	Naphthalene		<0.01	
	Nickel (and compounds)		<0.001	
	Phenol		<0.01	
	Polynuclear Aromatic Hydrocarbons		<0.001	
	Toluene		0.02	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.03	
	EQT 0112 2-05	Chlorine	0.11	0.11
Hydrochloric acid		0.39	0.39	0.01
EQT 0118 15-91	Benzene		0.09	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0118 15-91	Cumene		<0.01	
	Ethyl benzene		<0.02	
	Naphthalene		<0.01	
	Polynuclear Aromatic Hydrocarbons		0.002	
	Toluene		0.23	
	Xylene (mixed isomers)		0.35	
	n-Hexane		0.21	
GRP 0006	1,3-Butadiene	0.03		0.12
	2,2,4-Trimethylpentane	0.07		0.30
	Ammonia	0.05		0.22
	Benzene	0.83		3.62
	Cresol	0.07		0.29
	Cumene	0.08		0.33
	Ethyl benzene	0.43		1.90
	Hydrogen sulfide	0.41		1.81
	Methanol	3.18		13.91
	Naphthalene	1.37		6.01
	Polynuclear Aromatic Hydrocarbons	0.17		0.75
	Tetrachloroethylene	0.60		2.63
	Toluene	1.73		7.58
	Xylene (mixed isomers)	2.18		9.54
n-Hexane	2.20		9.65	
GRP 0007	Acetaldehyde	0.01		0.05
	Acrolein	0.017		0.074
	Benzene	0.06		0.26
	Dichlorobenzene	<0.01		<0.01
	Ethyl benzene	0.02		0.07
	Formaldehyde	0.05		0.23
	Hydrogen sulfide	0.08		0.37
	Lead compounds	<0.001		0.002
	Mercury (and compounds)	<0.001		0.001
	Naphthalene	<0.01		<0.01
	Nickel (and compounds)	0.002		0.009

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year	
GRP 0007	Phenol	<0.01		0.02	
	Polynuclear Aromatic Hydrocarbons	<0.001		0.002	
	Toluene	0.15		0.66	
	Xylene (mixed isomers)	0.02		0.11	
	n-Hexane	0.40		1.74	
GRP 0008	2,2,4-Trimethylpentane	0.07		0.31	
	Benzene	0.11		0.47	
	Cumene	0.002		0.01	
	Ethyl benzene	0.03		0.14	
	Methanol	0.05		0.24	
	Naphthalene	0.01		0.04	
	Nitrobenzene	<0.001		<0.01	
	Polynuclear Aromatic Hydrocarbons	0.02		0.10	
	Pyridine	<0.001		<0.01	
	Toluene	0.25		1.11	
	Xylene (mixed isomers)	0.29		1.28	
	n-Hexane	0.31		1.34	
	n-butyl alcohol	<0.001		<0.01	
	GRP 0009	2,2,4-Trimethylpentane	<0.001		<0.01
		Ammonia	0.09		0.38
Benzene		0.07		0.29	
Cumene		0.003		0.01	
Ethyl benzene		0.02		0.09	
Hydrogen sulfide		0.001		<0.01	
Naphthalene		0.002		<0.01	
Polynuclear Aromatic Hydrocarbons		0.001		0.004	
Toluene		0.15		0.67	
Xylene (mixed isomers)		0.24		1.07	
n-Hexane		0.15		0.65	
UNF 0001	1,1,1-Trichloroethane			<0.01	
	1,1,2,2-Tetrachloroethane			<0.01	
	1,1,2-Trichloroethane			<0.01	
	1,1-Dichloroethane			<0.01	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001	1,2-Dibromo-3-chloropropane			<0.01
	1,2-Dichloroethane			<0.001
	1,2-Dichloropropane			<0.01
	1,3-Butadiene			0.24
	1,3-Dichloropropene			<0.01
	1,4-Dichlorobenzene			<0.01
	2,2,4-Trimethylpentane			1.41
	Acetaldehyde			0.14
	Acrolein			0.081
	Ammonia			21.57
	Antimony (and compounds)			0.002
	Arsenic (and compounds)			0.002
	Barium (and compounds)			0.009
	Benzene			15.11
	Beryllium (Table 51.1)			0.001
	Cadmium (and compounds)			0.003
	Carbon disulfide			0.30
	Carbon tetrachloride			<0.01
	Chlorine			0.46
	Chlorobenzene			<0.001
	Chloroethane			<0.01
	Chloroform			<0.01
	Chromium VI (and compounds)			0.005
	Cobalt compounds			<0.001
	Copper (and compounds)			0.007
	Cresol			0.41
	Cumene			0.41
	Cyanide compounds			0.34
	Dichloromethane			<0.01
	Ethyl benzene			3.74
	Formaldehyde			2.02
	Hydrochloric acid			0.04
	Hydrogen cyanide			0.80

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001	Hydrogen sulfide			12.63
	Lead compounds			0.212
	Manganese (and compounds)			0.01
	Mercury (and compounds)			0.002
	Methanol			14.45
	Methyl Tertiary Butyl Ether			<0.01
	Methyl bromide			0.01
	Methyl ethyl ketone			<0.01
	Methyl isobutyl ketone			<0.01
	Naphthalene			6.80
	Nickel (and compounds)			0.119
	Nitrobenzene			<0.01
	Phenol			0.79
	Polynuclear Aromatic Hydrocarbons			0.921
	Pyridine			<0.01
	Selenium (and compounds)			0.011
	Styrene			<0.01
	Sulfuric acid			14.70
	Tetrachloroethylene			2.63
	Toluene			16.10
	Trichloroethylene			<0.01
	Vinyl chloride			<0.01
	Vinylidene chloride			<0.01
	Xylene (mixed isomers)			14.79
	n-Hexane			23.13
	n-butyl alcohol			<0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**ARE 0001 4-77 - Wastewater Collection and Treatment System**

- 1 [40 CFR 60.690] The following wastewater system facilities are subject to the requirements of 40 CFR Part 60, Subpart QQQ:  
Individual drain systems: MTBE Unit, Isom Unit, Octene Unit, LPG Storage Area, Area 02Q, Environmental and Bundle Cleaning Slabs, Crude Rack, Gasoline Rack, Area 17Q, and GDU;  
Junction boxes associated with the Isom, MTBE, Octene Units, Area 02Q, Environmental and Bundle Cleaning Slabs, Area 17Q, and LPG;  
Oily Sumps: Sump A, FCC Sump, MTBE Sump, Isom Sump, Lab, Area 02Q, and Environment Slab;  
Oily Water Separators: CPS  
Closed vent system & control device.
- 2 [40 CFR 60.692-2(a)(1)] Equip each affected drain with water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(1)]
- 3 [40 CFR 60.692-2(a)(2)] Equipment/operational data monitored by visual inspection/determination once initially and monthly thereafter. Monitor drains in active service for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(2)]  
Which Months: All Year Statistical Basis: None specified
- 4 [40 CFR 60.692-2(a)(3)] Equipment/operational data monitored by visual inspection/determination once initially and weekly thereafter. Monitor drains out of active service for indications of low water levels or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(a)(3)]  
Which Months: All Year Statistical Basis: None specified
- 5 [40 CFR 60.692-2(a)(4)] Equipment/operational data monitored by technically sound method once initially and semiannually thereafter. Monitor the tightly sealed cap or plug over a drain that is out of service to ensure cap or plug are in place and properly installed. Subpart QQQ. [40 CFR 60.692-2(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 6 [40 CFR 60.692-2(a)(5)] Add water or make first attempts at repair as soon as practicable, but not later than 24 hours after low water levels or missing or improperly installed caps or plugs are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(a)(5)]
- 7 [40 CFR 60.692-2(b)(1)] Junction boxes: Equip with a cover. Ensure vent pipes are at least 90 cm (3 ft) in length and do not exceed 10.2 cm (4 in) in diameter. Subpart QQQ. [40 CFR 60.692-2(b)(1)]
- 8 [40 CFR 60.692-2(b)(2)] Junction boxes: Cover must have a tight seal around the edge and be kept in place at all times, except during inspection and maintenance. Subpart QQQ. [40 CFR 60.692-2(b)(2)]
- 9 [40 CFR 60.692-2(b)(3)] Junction boxes: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor to ensure the cover is in place and to ensure that the cover has a tight seal around the edge. Subpart QQQ. [40 CFR 60.692-2(b)(3)]  
Which Months: All Year Statistical Basis: None specified
- 10 [40 CFR 60.692-2(b)(4)] Junction boxes: Make a first effort at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gap is identified, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(b)(4)]
- 11 [40 CFR 60.692-2(c)(1)] Sewer lines: Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. Subpart QQQ. [40 CFR 60.692-2(c)(1)]
- 12 [40 CFR 60.692-2(c)(2)] Sewer lines: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor the portion of each unburied sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(c)(2)]  
Which Months: All Year Statistical Basis: None specified
- 13 [40 CFR 60.692-2(c)(3)] Sewer lines: Make repairs as soon as practicable, but not later than 15 calendar days after cracks, gaps, or other problems are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(c)(3)]

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**ARE 0001 4-77 - Wastewater Collection and Treatment System**

- 14 [40 CFR 60.692-2(e)] Do not route refinery wastewater routed through new drains and a new first common downstream junction box, either as part of a new or existing individual drain system, through a downstream catch basin. Subpart QQQ. [40 CFR 60.692-2(e)]
- 15 [40 CFR 60.692-3(a)] Equip and operate each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment with a fixed roof, which meets the specifications in 40 CFR 60.692-3(a)(1) through (a)(5), except as provided in 40 CFR 60.692-3(d) or 60.693-2. Subpart QQQ. [40 CFR 60.692-3(a)]
- 16 [40 CFR 60.692-3(b)] Equip and operate each oil-water separator tank or auxiliary equipment with a design capacity to treat more than 16 liters per second (250 gpm) with a closed vent system and control device, which meet the requirements 40 CFR 60.692-5, except as provided in 40 CFR 60.692-3(c) or 60.693-2. Subpart QQQ. [40 CFR 60.692-3(b)]
- 17 [40 CFR 60.692-3(c)] Meet the requirements of 40 CFR 60.692-3(a), or comply with the requirements of 40 CFR 60.692-3(a) for the existing fixed roof covering a portion of the separator tank and comply with the requirements for floating roofs in 40 CFR 60.693-2 for the remainder of the separator tank. Subpart QQQ. [40 CFR 60.692-3(c)]
- 18 [40 CFR 60.692-3(e)] Ensure that slop oil from an oil-water separator tank and oily wastewater from slop oil handling equipment is collected, stored, transported, recycled, reused, or disposed of in an enclosed system. Equip equipment used in handling slop oil with a fixed roof meeting the requirements of 40 CFR 60.692-3(a). Subpart QQQ. [40 CFR 60.692-3(e)]
- 19 [40 CFR 60.696(a)] Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
- 20 [40 CFR 60.697(a)] Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]
- 21 [40 CFR 60.697(b)] Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(b)(1) through (b)(3). Subpart QQQ. [40 CFR 60.697(b)]
- 22 [40 CFR 60.697(c)] Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the location, date, and corrective action for inspections required by 40 CFR 60.692-3(a) when a problem is identified that could result in VOC emissions. Subpart QQQ. [40 CFR 60.697(c)]
- 23 [40 CFR 60.697(e)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
- 24 [40 CFR 60.697(f)] Retain the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
- 25 [40 CFR 60.697(g)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep plans or specifications which indicate the location of out of active service drains covered by tightly sealed caps or plugs for the life of the facility in a readily accessible location. Subpart QQQ. [40 CFR 60.697(g)]
- 26 [40 CFR 60.698(b)(1)] Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**ARE 0001 4-77 - Wastewater Collection and Treatment System**

- 27 [40 CFR 60.698(c)] Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- 28 [LAC 33:III.501.C.6] Wastewater tanks 25-1, 5-1, 80-14, 8-1, 850, 851,852, 856A, 856B, 857, 858, 859, 860, 861, 862, 872, 9909, 995, 996, and 999 are part of the Wastewater Collection and Treatment System.
- 29 [LAC 33:III.5109.A] Comply with Louisiana Refinery MACT Determination dated July 26, 1994.

**CRG 0001 - EFR Storage Tanks**

Group Members: EQT 0023 EQT 0024 EQT 0025

- 30 [LAC 33:III.5109.A] Low vapor pressure. No further control is required.

**CRG 0002 - Heaters and Boilers**

Group Members: EQT 0026 EQT 0073 EQT 0075 EQT 0076 EQT 0087

- 31 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 32 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 33 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 34 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 35 [LAC 33:III.1101.B] Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 36 [LAC 33:III.1313.C] Total suspended particulate  $\leq 0.6$  lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 37 [LAC 33:III.1503.C] Comply with NSPS Subpart J.
- 38 [LAC 33:III.509] Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Gas Oxygen Monitors as BACT for Combustion Controls" given in Appendix A. PSD-LA-745.
- 39 [LAC 33:III.509] Nitrogen oxides  $\leq 0.120$  lb/MMBTU PSD-LA-745.  
Which Months: All Year Statistical Basis: 24-hour average

**CRG 0003 - EFR Storage Tanks**

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**

**Activity Number: PER20080013**

**Permit Number: 2600-00003-V2**

**Air - Title V Regular Permit Renewal**

**CRG 0003 - EFR Storage Tanks**

Group Members: EQT 0032EQT 0033EQT 0039EQT 0040EQT 0041EQT 0042EQT 0044EQT 0045EQT 0046EQT 0049EQT 0052EQT 0053EQT 0054EQT 0056EQT 0057EQT 0058EQT 0059EQT 0065EQT 0066EQT 0067EQT 0068

- 40 [40 CFR 60.110a] NSPS Subpart Ka for Group 1 storage tank is superseded by 40 CFR 63 Subpart CC.
- 41 [40 CFR 63.646(a)] Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]
- 42 [40 CFR 63.646(f)(1)] If a cover or lid is installed on an opening on a floating roof, keep the cover or lid closed except when it must be open for access. Subpart CC. [40 CFR 63.646(f)(1)]
- 43 [40 CFR 63.646(f)(2)] Set rim space vents to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Subpart CC. [40 CFR 63.646(f)(2)]
- 44 [40 CFR 63.646(f)(3)] Keep automatic bleeder vents closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Subpart CC. [40 CFR 63.646(f)(3)]
- 45 [40 CFR 63.654(h)(2)(i)] Notify DEQ of the refilling of each Group 1 storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
- 46 [40 CFR 63.654(h)(2)(ii)] Notify DEQ in writing of any seal gap measurements at least 30 calendar days in advance of any gap measurements required by 40 CFR 63.120(b)(1) or (b)(2) of 40 CFR 63 Subpart G. Subpart CC. [40 CFR 63.654(h)(2)(ii)]
- 47 [40 CFR 63.654(i)(1)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]
- 48 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 49 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 50 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 51 [LAC 33:III.2103.D.2.c] Seal gap area  $\leq 1 \text{ in}^2/\text{ft}$  of tank diameter (6.5 cm<sup>2</sup>/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.  
Which Months: All Year Statistical Basis: None specified
- 52 [LAC 33:III.2103.D.2.d] Seal gap area  $\leq 10 \text{ in}^2/\text{ft}$  of tank diameter (65 cm<sup>2</sup>/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.  
Which Months: All Year Statistical Basis: None specified
- 53 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.  
Which Months: All Year Statistical Basis: None specified
- 54 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.  
Which Months: All Year Statistical Basis: None specified
- 55 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 56 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**

**Activity Number: PER20080013**

**Permit Number: 2600-00003-V2**

**Air - Title V Regular Permit Renewal**

**CRG 0003 - EFR Storage Tanks**

- 57 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 58 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 59 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 60 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
- 61 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 62 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 63 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**CRG 0004 - EFR Storage Tanks**

Group Members: EQT 0034 EQT 0035 EQT 0037

- 64 [40 CFR 60.110] NSPS Subpart K is superseded by 40 CFR 63 Subpart CC per 40 CFR 63.640(n)(5).
- 65 [40 CFR 63.646(a)] Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]
- 66 [40 CFR 63.646(f)(1)] If a cover or lid is installed on an opening on a floating roof, keep the cover or lid closed except when it must be open for access. Subpart CC. [40 CFR 63.646(f)(1)]
- 67 [40 CFR 63.646(f)(2)] Set rim space vents to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Subpart CC. [40 CFR 63.646(f)(2)]
- 68 [40 CFR 63.646(f)(3)] Keep automatic bleeder vents closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Subpart CC. [40 CFR 63.646(f)(3)]
- 69 [40 CFR 63.654(h)(2)(i)] Notify DEQ of the refilling of each Group 1 storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
- 70 [40 CFR 63.654(h)(2)(ii)] Notify DEQ in writing of any seal gap measurements at least 30 calendar days in advance of any gap measurements required by 40 CFR 63.120(b)(1) or (b)(2) of 40 CFR 63 Subpart G. Subpart CC. [40 CFR 63.654(h)(2)(ii)]

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**CRG 0004 - EFR Storage Tanks**

71	[40 CFR 63.654(i)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]
72	[LAC 33:III.2103.B]	Equip with a submerged fill pipe.
73	[LAC 33:III.2103.D.2.a]	Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
74	[LAC 33:III.2103.D.2.b]	Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
75	[LAC 33:III.2103.D.2.c]	Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm <sup>2</sup> /0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. Which Months: All Year Statistical Basis: None specified
76	[LAC 33:III.2103.D.2.d]	Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm <sup>2</sup> /0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. Which Months: All Year Statistical Basis: None specified
77	[LAC 33:III.2103.D.2.e]	Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
78	[LAC 33:III.2103.D.2.e]	Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. Which Months: All Year Statistical Basis: None specified
79	[LAC 33:III.2103.D.2.e]	Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. Which Months: All Year Statistical Basis: None specified
80	[LAC 33:III.2103.D.2.e]	Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
81	[LAC 33:III.2103.D.2.e]	Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. Which Months: All Year Statistical Basis: None specified
82	[LAC 33:III.2103.D.3]	Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
83	[LAC 33:III.2103.D]	Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
84	[LAC 33:III.2103.H.1]	Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
85	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c.
86	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**  
**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

**CRG 0004 - EFR Storage Tanks**

87 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**CRG 0005 - EFR Storage Tanks**

Group Members: EQT 0043EQT 0055EQT 0060EQT 0064

88 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.  
89 [LAC 33:III.5109.A] Low vapor pressure. No further control is required.

**CRG 0006 - Storage Tanks**

Group Members: EQT 0047EQT 0048EQT 0050EQT 0051EQT 0077EQT 0078EQT 0079

90 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.  
91 [LAC 33:III.5109.A] No further control is required.

**CRG 0007 - Storage Tanks**

Group Members: EQT 0081EQT 0082EQT 0085EQT 0094EQT 0095EQT 0105

92 [LAC 33:III.5109.A] No further control is required.

**CRG 0008 - IFR Water Tanks**

Group Members: EQT 0038EQT 0080EQT 0083EQT 0100

93 [LAC 33:III.5109.A] Wastewater tank with internal floating roof. No further control is required.

**CRG 0009 - IFR Storage Tanks**

Group Members: EQT 0090EQT 0091EQT 0096

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**

**Activity Number: PER20080013**

**Permit Number: 2600-00003-V2**

**Air - Title V Regular Permit Renewal**

**CRG 0009 - IFR Storage Tanks**

- 94 [40 CFR 60.112b(a)(1)(i)] Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
- 95 [40 CFR 60.112b(a)(1)] Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
- 96 [40 CFR 60.113b(a)(1)] Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 97 [40 CFR 60.113b(a)(2)] Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]  
Which Months: All Year Statistical Basis: None specified
- 98 [40 CFR 60.113b(a)(2)] If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, request a 30-day extension from DEQ in the inspection report required in 40 CFR 60.115b(a)(3). Document in the request for extension that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. Subpart Kb. [40 CFR 60.113b(a)(2)]
- 99 [40 CFR 60.113b(a)(4)] Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**

**Activity Number: PER20080013**

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**Air - Title V Regular Permit Renewal**

**CRG 0009 - IFR Storage Tanks**

- 100 [40 CFR 60.113b(a)(4)] If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]
- 101 [40 CFR 60.113b(a)(5)] Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
- 102 [40 CFR 60.115b(a)(1)] Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]
- 103 [40 CFR 60.115b(a)(2)] Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]
- 104 [40 CFR 60.115b(a)(3)] Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]
- 105 [40 CFR 60.115b(a)(4)] Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 60.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)]
- 106 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 107 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 108 [40 CFR 60.116b(d)] Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]
- 109 [40 CFR 60.116b(e)] Shall determine the maximum true vapor pressure as described in 40 CFR 60.116b(e). [40 CFR 60.116b(e)]

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****CRG 0009 - IFR Storage Tanks**

- 110 [40 CFR 63.640(n)(8)] Comply with 40 CFR 60, Subpart Kb except as provided for in 40 CFR 63.640(n)(8)(i) through (n)(8)(vi). [40 CFR 63.640(n)(8)]
- 111 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 112 [LAC 33:III.2103.C.1.c] Equip internal floating roof with two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
- 113 [LAC 33:III.2103.C] Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- 114 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 115 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 116 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**CRG 0010 - Storage Tanks****Group Members: EQT 0106EQT 0107**

- 117 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
- 118 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 119 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 120 [LAC 33:III.5109.A] No further control is required.

**CRG 0011 - Dock Loading****Group Members: EQT 0062EQT 0063EQT 0086**

- 121 [LAC 33:III.509] Shall use submerged fill loading at all times. PSD-LA-745.
- 122 [LAC 33:III.5109.A] Comply with Louisiana Refinery MACT Determination dated July 26, 1994 - determined as MACT.

**CRG 0012 - Heater, Boiler, and Reboilers****Group Members: EQT 0027EQT 0028EQT 0029**

- 123 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

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Air - Title V Regular Permit Renewal

**CRG 0012 - Heater, Boiler, and Reboilers**

- 124 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 125 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 126 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 127 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 128 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 129 [LAC 33:III.509] Shall be fired only under low excess air (LEA) conditions and shall be monitored for excess air on at least a weekly basis by an oxygen monitor or Orsat, with a manual readjustment of the burners. PSD-LA-745.
- 130 [LAC 33:III.509] Nitrogen oxides <= 0.120 lb/MMBTU PSD-LA-745.  
Which Months: All Year Statistical Basis: 24-hour average

**CRG 0013 - Heaters and Boilers**

Group Members: EQT 0061EQT 0092EQT 0097EQT 0108

- 131 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1-gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 132 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 133 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 134 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 135 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 136 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 137 [LAC 33:III.1503.C] Comply with NSPS Subpart J.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

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**CRG 0014 - Truck/Rail Car Loading**

Group Members: EQT 0098EQT 0101EQT 0102

- 138 [LAC 33:III.2107.B] Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system.
- 139 [LAC 33:III.2107.B] Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system.
- 140 [LAC 33:III.2107.C] Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.
- 141 [LAC 33:III.2107.C] VOC. Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks.  
Which Months: All Year Statistical Basis: None specified
- 142 [LAC 33:III.2107.D] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2.

**CRG 0015 - Internal Combustion Engines**

Group Members: EQT 0130EQT 0132EQT 0133EQT 0134EQT 0135EQT 0136EQT 0137EQT 0138EQT 0139EQT 0140

- 143 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 144 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average

**EQT 0030 7-78 - Steam Boiler (B-8001)**

- 145 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 146 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 147 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 148 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

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**EQT 0030 7-78 - Steam Boiler (B-8001)**

- 149 [LAC 33:III.1101.B] Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 150 [LAC 33:III.1313.C] Total suspended particulate  $\leq$  0.6 lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified
- 151 [LAC 33:III.509] Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Gas Oxygen Monitors as BACT for Combustion Controls" given in Appendix A, PSD-LA-745.
- 152 [LAC 33:III.509] Nitrogen oxides  $\leq$  0.120 lb/MMBTU PSD-LA-745.  
Which Months: All Year Statistical Basis: 24-hour average

**EQT 0031 8-78 - Crude Unit Flare**

- 153 [40 CFR 60.100] As approved by EPA on April 7, 2009, this flaring device shall comply with NSPS Subpart J by eliminating to the extent practicable routes of continuous or intermittent, routinely-generated fuel gases, by monitoring this flaring device by use of a CEMS and a flow meter to demonstrate that this flaring device emits less than 500 pounds per day of SO<sub>2</sub> under normal conditions by December 31, 2011. Subpart J.
- 154 [40 CFR 60.18(c)(1)] Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 155 [40 CFR 60.18(c)(2)] Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 156 [40 CFR 60.18(c)(3)(ii)] Heat content  $\geq$  300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]  
Which Months: All Year Statistical Basis: None specified
- 157 [40 CFR 60.18(c)(5)] Exit Velocity  $<$   $\frac{1}{2}$  ft/sec (V<sub>max</sub>). Determine V<sub>max</sub> using the method specified in 40 CFR 60.18(f)(6). Subpart A. [40 CFR 60.18(c)(5)]  
Which Months: All Year Statistical Basis: None specified
- 158 [40 CFR 60.18(d)] Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
- 159 [40 CFR 60.18(e)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
- 160 [40 CFR 60.18(f)(2)] Presence of a flame monitored by flame monitor at the regulation's specified frequency. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]  
Which Months: All Year Statistical Basis: None specified
- 161 [40 CFR 63.11(b)(1)] Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 162 [40 CFR 63.11(b)(3)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 163 [40 CFR 63.11(b)(4)] Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 164 [40 CFR 63.11(b)(5)] Operate with a flame present at all times. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**

**Activity Number: PER20080013**

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**Air - Title V Regular Permit Renewal**

**EQT 0031 8-78 - Crude Unit Flare**

- 165 [40 CFR 63.11(b)(6)(ii)] Heat content  $\geq 300$  BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]  
Which Months: All Year Statistical Basis: None specified
- 166 [40 CFR 63.11(b)(8)] Exit Velocity  $< V_{max}$ /sec (Vmax). Determine Vmax using the equation specified in 40 CFR 63.11(b)(8). Subpart A. [40 CFR 63.11(b)(8)]  
Which Months: All Year Statistical Basis: None specified
- 167 [40 CFR 63.643(a)(1)] Meet the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1)]
- 168 [40 CFR 63.644(a)(2)] Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including, but not limited to, a thermocouple, an ultraviolet beam sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)]  
Which Months: All Year Statistical Basis: None specified
- 169 [40 CFR 63.644(c)(2)] Vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart CC. [40 CFR 63.644(c)(2)]
- 170 [40 CFR 63.645(a)] Demonstrate compliance with 40 CFR 63.643 by following 40 CFR 63.116 except for 63.116(a)(1), (d) and (e), except as provided in 40 CFR 63.645(b) through (d) and (i). Subpart CC. [40 CFR 63.645(a)]
- 171 [40 CFR 63.654(i)(3)] Equipment/operational data recordkeeping by recorder hourly. Keep the records specified in 40 CFR 63.654(i)(3)(i) through (i)(3)(v). Subpart CC. [40 CFR 63.654(i)(3)]
- 172 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:III.3923. Notification is required only if the upset cannot be controlled in six hours.
- 173 [LAC 33:III.1105] Opacity  $\leq 20$  percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.  
Which Months: All Year Statistical Basis: None specified
- 174 [LAC 33:III.1311.C] Opacity  $\leq 20$  percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average
- 175 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**EQT 0036 17-78 - Tank 30-7**

- 176 [40 CFR 60.110] NSPS Subpart K is superseded by 40 CFR 63 Subpart CC per 40 CFR 63.640(n)(5).
- 177 [40 CFR 63.646(a)] Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]
- 178 [40 CFR 63.646(d)(1)] If a cover or lid is installed on an opening on a floating roof, keep the cover or lid closed except when it must be open for access. Subpart CC. [40 CFR 63.646(d)(1)]
- 179 [40 CFR 63.646(f)(2)] Set rim space vents to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Subpart CC. [40 CFR 63.646(f)(2)]

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****EQT 0036 17-78 - Tank 30-7**

- 180 [40 CFR 63.646(f)(3)] Keep automatic bleeder vents closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Subpart CC. [40 CFR 63.646(f)(3)]
- 181 [40 CFR 63.654(h)(2)(i)] Notify DEQ of the refilling of each Group I storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
- 182 [40 CFR 63.654(i)(1)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]
- 183 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 184 [LAC 33:III.2103.C] Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- 185 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 186 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 187 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**EQT 0069 54-81 - Cooling Towers (CT-8206 & 8006)**

- 188 [LAC 33:III.5109.A] Comply with Louisiana Refinery MACT Determination dated July 26, 1994 - determined as MACT.

**EQT 0071 1-85 - Fluid Catalytic Cracking Unit**

- 189 [40 CFR 60.102(a)(1)] Total suspended particulate  $\leq$  1 kg/Mg (2.0 lb/ton) of coke burn-off, except as specified in 40 CFR 60.102(b). Subpart J. [40 CFR 60.102(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 190 [40 CFR 60.102(a)(2)] Opacity  $\leq$  30 percent, except for one six-minute average opacity reading in any one hour period. Subpart J. [40 CFR 60.102(a)(2)]  
Which Months: All Year Statistical Basis: Six-minute average
- 191 [40 CFR 60.103(a)] Carbon monoxide  $\leq$  500 ppmv (dry basis). Subpart J. [40 CFR 60.103(a)]  
Which Months: All Year Statistical Basis: None specified
- 192 [40 CFR 60.104(b)(2)] Sulfur dioxide  $\leq$  9.8 kg/Mg (20 lb/ton) of coke burn-off. Subpart J. PSD-LA-745. [40 CFR 60.104(b)(2)]  
Which Months: All Year Statistical Basis: Seven-day rolling average
- 193 [40 CFR 60.105(a)(1)] Opacity monitored by continuous opacity monitor (COM) continuously. Subpart J. [40 CFR 60.105(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 194 [40 CFR 60.105(a)(2)] Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(ii). Subpart J. [40 CFR 60.105(a)(2)]  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****EQT 0071 1-85 - Fluid Catalytic Cracking Unit**

195	[40 CFR 60.105(c)]	Re & operating hours recordkeeping by electronic or hard copy daily. Record the average coke burn-off rate (Mg (tons) per hour) and hours of operation. Subpart J. [40 CFR 60.105(c)]
196	[40 CFR 60.106(a)]	Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
197	[40 CFR 63.1564(a)(1)]	Opacity <= 30 percent, except for one 6-minute average opacity reading in any 1-hour period, if the discharged gases pass through an incinerator or waste heat boiler in which you burn auxiliary or in supplemental liquid or solid fossil fuel. Subpart UUU. [40 CFR 63.1564(a)(1)] Which Months: All Year Statistical Basis: Six-minute average
198	[40 CFR 63.1564(b)(1)]	Opacity monitored by continuous opacity monitor (COM) continuously. Subpart UUU. [40 CFR 63.1564(b)(1)] Which Months: All Year Statistical Basis: Six-minute average
199	[40 CFR 63.1564(b)]	Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1564(b)(4) and (b)(5). Subpart UUU. [40 CFR 63.1564(b)]
200	[40 CFR 63.1564(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 1 and 2 according to the methods specified in 40 CFR 63 Subpart UUU Tables 6 and 7, and in 40 CFR 63.1564(c)(3) and (c)(4), as applicable. Subpart UUU. [40 CFR 63.1564(c)(1)]
201	[40 CFR 63.1565(a)(1)]	Carbon monoxide <= 500 ppmv (dry basis). Subpart UUU. [40 CFR 63.1565(a)(1)] Which Months: All Year Statistical Basis: None specified
202	[40 CFR 63.1565(b)(1)]	Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as specified in 40 CFR 63.1565(b)(1)(i) through (b)(1)(iii). Subpart UUU. [40 CFR 63.1565(b)(1)] Which Months: All Year Statistical Basis: None specified
203	[40 CFR 63.1565(b)(4)]	Demonstrate initial compliance with each applicable emission limitation according to 40 CFR 63 Subpart UUU Table 12. Subpart UUU. [40 CFR 63.1565(b)(4)]
204	[40 CFR 63.1565(c)(1)]	Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 8 and 9 according to the methods specified in 40 CFR 63 Subpart UUU Tables 13 and 14. Subpart UUU. [40 CFR 63.1565(c)(1)]
205	[LAC 33:III.1311.D]	Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Which Months: All Year Statistical Basis: Six-minute average
206	[LAC 33:III.501.C.6]	To ensure compliance with the emission limits for SO <sub>2</sub> (816.69 TPY), NO <sub>x</sub> (152.52 TPY), and CO (160.00 TPY), continuous emissions monitoring systems (CEMS) shall be installed, operated, and maintained in accordance with 40 CFR 60, Appendix B - Performance Specifications. Permittee shall demonstrate compliance by calculating SO <sub>2</sub> , NO <sub>x</sub> , and CO emissions each month, as well as emissions for the last twelve months. Total emissions for any twelve consecutive month period from this FCC Unit above the maximum annual emission rates given in this specific requirement shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the calculated SO <sub>2</sub> , NO <sub>x</sub> , and CO emissions shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.
207	[LAC 33:III.509]	Shall comply with all requirements of 40 CFR 60 Subpart J, as such provisions relate SO <sub>2</sub> emissions, by June 30, 2010. PSD-LA-745.
208	[LAC 33:III.509]	Shall not discharge or cause discharge into the atmosphere from this unit any gases that contain nitrogen oxides (NO <sub>x</sub> ) in excess of 110.0 ppmvd (at 0% O <sub>2</sub> ), as a 365-day rolling average, or 220.0 ppmvd (at 0% O <sub>2</sub> ), as a 7-day rolling average. PSD-LA-745.
209	[LAC 33:III.5109.A.1]	Compliance with NESHAP 40 CFR 63 Subpart UUU has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**  
**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

**EQT 0071 1-85 - Fluid Catalytic Cracking Unit**

210 [LAC 33:III.Chapter 15] Comply with NSPS Subpart J as specified by PSD Permit No. PSD-LA-745.

**EQT 0072 2-85 - Ammonium Thiosulfate Unit**

211 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy as needed. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

212 [LAC 33:III.501.C.6] Routing of Sour Water Stripper Off Gas to incineration shall not exceed 1,440 hours per year. Records of the routing time to incineration for each month and for the last twelve months shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Routing of Sour Water Stripper Off Gas to the ATS incinerator for a time greater than 1,440 hours for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the routing time and routing for Sour Water Stripper Off Gas shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.

213 [LAC 33:III.509] The Ammonium Thiosulfate Unit (2-85) shall meet the SO<sub>2</sub> emission limitation of 40 CFR 60 Subpart J for Claus sulfur recovery plant (250 ppmv). Compliance shall be demonstrated by stack testing. (Stack test was conducted on June 16, 1983.) PSD-LA-745.

214 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0074 5-85 - FCC Unit Flare**

215 [40 CFR 60.100] As approved by EPA on April 7, 2009, this flaring device shall comply with NSPS Subpart J by eliminating to the extent practicable routes of continuous or intermittent, routinely-generated fuel gases, by monitoring this flaring device by use of a CEMS and a flow meter to demonstrate that this flaring device emits less than 500 pounds per day of SO<sub>2</sub> under normal conditions by December 31, 2011. Subpart J.

216 [40 CFR 60.18(c)(1)] Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]

217 [40 CFR 60.18(c)(2)] Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]

218 [40 CFR 60.18(c)(3)(iii)] Heat content  $\geq$  300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]  
 Which Months: All Year Statistical Basis: None specified

219 [40 CFR 60.18(c)(4)(iii)] Exit Velocity  $<$  400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity V<sub>max</sub>, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)]  
 Which Months: All Year Statistical Basis: None specified

220 [40 CFR 60.18(d)] Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]

221 [40 CFR 60.18(e)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****EQT 0074 5-85 - FCC Unit Flare**

- 222 [40 CFR 60.18(f)(2)] Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]  
Which Months: All Year Statistical Basis: None specified
- 223 [40 CFR 63.11(b)(1)] Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 224 [40 CFR 63.11(b)(3)] Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 225 [40 CFR 63.11(b)(4)] Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 226 [40 CFR 63.11(b)(5)] Operate with a flame present at all times. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
- 227 [40 CFR 63.11(b)(6)(ii)] Heat content  $\geq 300$  BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]  
Which Months: All Year Statistical Basis: None specified
- 228 [40 CFR 63.11(b)(7)(iii)] Exit Velocity  $< 400$  ft/sec and  $V_{max}$ , as determined by the method specified in 40 CFR 63.11(b)(7)(i). Determine  $V_{max}$  using the method specified in 40 CFR 63.11(b)(7)(iii). Subpart A. [40 CFR 63.11(b)(7)(iii)]  
Which Months: All Year Statistical Basis: None specified
- 229 [40 CFR 63.643(a)(1)] Meet the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1)]
- 230 [40 CFR 63.644(a)(2)] Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including, but not limited to, a thermocouple, an ultraviolet beam sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)]  
Which Months: All Year Statistical Basis: None specified
- 231 [40 CFR 63.645(a)] Demonstrate compliance with 40 CFR 63.643 by following 40 CFR 63.116 except for 63.116(a)(1), (d) and (e), except as provided in 40 CFR 63.645(b) through (d) and (i). Subpart CC. [40 CFR 63.645(a)]
- 232 [40 CFR 63.654(i)(3)] Equipment/operational data recordkeeping by recorder hourly. Keep the records specified in 40 CFR 63.654(i)(3)(i) through (i)(3)(v). Subpart CC. [40 CFR 63.654(i)(3)]
- 233 [LAC 33:III.1105] Opacity  $\leq 20$  percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.  
Which Months: All Year Statistical Basis: None specified
- 234 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 235 [LAC 33:III.1211.C] Opacity  $\leq 20$  percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average
- 236 [LAC 33:III.1503.C] Comply with NSPS Subpart J.
- 237 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**  
**Activity Number: PER20080013**  
**Permit Number: 2600-00003-V2**  
**Air - Title V Regular Permit Renewal**

**EQT 0088 1-89 - Truck Rack**

- 238 [40 CFR 60.500] NSPS Subpart XX is superceded by 40 CFR 63 Subpart CC per 40 CFR 63.640(r).
- 239 [40 CFR 63.650(a)] Comply with 40 CFR 63.421, 422(a) through (c), 425(a) through (c), 425(e) through (h), 427(a) and (b), and 428(b), (c), (g)(1), and (h)(1) through (h)(3). Subpart CC. [40 CFR 63.650(a)]
- 240 [40 CFR 63.654(b)] Comply with the recordkeeping and reporting provisions in 40 CFR 63.428 (b) and (c), (g)(1), and (h)(1) through (h)(3) of 40 CFR 63 Subpart R. Subpart CC. [40 CFR 63.654(b)]
- 241 [LAC 33:III.2137.A.1] Tank Trucks: Ensure that gasoline tank trucks and their vapor collection systems do not sustain a pressure change of more than 3 inches of water (0.75 kPa) in five minutes when pressurized to 18 inches of water (4.5 kPa) or evacuated to 6 inches of water (1.5 KPa) using Test Method 27 (40 CFR Part 60, Appendix A) for determination of vapor tightness of gasoline delivery tanks using pressure-vacuum test.
- 242 [LAC 33:III.2137.A.2] Tank Trucks: Ensure that each tank truck has a sticker displayed on each tank indicating the identification number of the tank and the date each tank last passed the pressure and vacuum test described in LAC 33:III.2137.A.1. Certify each tank annually and display the sticker near the Department of Transportation certification plate. Make any repairs necessary to pass the specified requirements within 15 days of failure.
- 243 [LAC 33:III.2137.B.1] Vapor Collection Systems: Ensure that loading and unloading operations at gasoline terminals do not produce a reading equal to or greater than 100% of the lower explosive limit (LEL, measured as propane) at 2.5 centimeters around the perimeter of a potential leak source as detected by a combustible gas detector using Test Method 21 (40 CFR Part 60, Appendix A) for determination of volatile organic compound leaks.
- 244 [LAC 33:III.2137.B.2] Vapor Collection Systems: Ensure that the vapor collection and processing equipment is designed and operated to prevent tank truck gauge pressure from exceeding 18 inches of water (4.5 kPa) and prevent vacuum from exceeding 6 inches of water (1.5 kPa).
- 245 [LAC 33:III.2137.B.3] Vapor Collection Systems: Equipment/operational data monitored by technically sound method annually. Make any repairs necessary to pass the specified requirements within 15 days of failure, if an inspection is failed.
- 246 [LAC 33:III.2137.D] Which Months: All Year Statistical Basis: None specified  
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records at the facility for at least two years indicating the last time the vapor collection facility passed the requirements specified in LAC 33:III.2137.B.1. Also, during the annual test procedure, record items which required repair in order to pass the specified requirements.
- 247 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**EQT 0089 1-91 - Marine Loading Vapor Recovery**

- 248 [40 CFR 63.560(a)(3)] Comply with the recordkeeping requirements of 40 CFR 63.567(j)(4) and the emission estimation requirements of 40 CFR 63.565(l). Subpart Y. [40 CFR 63.560(a)(3)]
- 249 [40 CFR 63.651(a)] Comply with the requirements of 40 CFR 63.560 through 63.567, except as specified in 40 CFR 63.651(b) through (d). Subpart CC. [40 CFR 63.651(a)]
- 250 [40 CFR 63.654(c)] Comply with the recordkeeping and reporting provisions in 40 CFR 63.566 and 63.567(a) and 63.567(c) through (i) of 40 CFR 63 Subpart Y. Subpart CC. [40 CFR 63.654(c)]
- 251 [LAC 33:III.1311.C] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**EQT 0089 1-91 - Marine Loading Vapor Recovery**

- 252 [LAC 33:III.2108.C.2] VOC. Total  $\geq 90$  % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system.  
Which Months: All Year Statistical Basis: None specified
- 253 [LAC 33:III.2108.D.4] Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
- 254 [LAC 33:III.2108.E] Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
- 255 [LAC 33:III.2108.F.1] Submit test results: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 45 days of any testing done in accordance with LAC 33:III.2108.E.
- 256 [LAC 33:III.2108.F.2] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
- 257 [LAC 33:III.2108.G.1] Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
- 258 [LAC 33:III.2108.G.2] Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
- 259 [LAC 33:III.2108.G.3] Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.
- 260 [LAC 33:III.5109.A.1] Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**EQT 0093 6-91 - Isomerization Heater (H-1501)**

- 261 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide  $\leq 0.1$  gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 262 [40 CFR 60.105(a)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) at the regulation's specified frequency. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]  
Which Months: All Year Statistical Basis: None specified
- 263 [40 CFR 60.106(a)] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 264 [40 CFR 60.106] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 265 [LAC 33:III.1101.B] Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 266 [LAC 33:III.1313.C] Total suspended particulate  $\leq 0.6$  lb/MMBTU of heat input.  
Which Months: All Year Statistical Basis: None specified

**EQT 0099 1-93 - Tank 3-2**

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****EQT 0099 1-93 - Tank 3-2**

267	[40 CFR 60.110a]	NSPS Subpart Ka for Group 1 storage tank is superseded by 40 CFR 63 Subpart CC.
268	[40 CFR 63.646(a)]	Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]
269	[40 CFR 63.646(f)(1)]	If a cover or lid is installed on an opening on a floating roof, keep the cover or lid closed except when it must be open for access. Subpart CC. [40 CFR 63.646(f)(1)]
270	[40 CFR 63.646(f)(2)]	Set rim space vents to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. Subpart CC. [40 CFR 63.646(f)(2)]
271	[40 CFR 63.646(f)(3)]	Keep automatic bleeder vents closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Subpart CC. [40 CFR 63.646(f)(3)]
272	[40 CFR 63.654(h)(2)(i)]	Notify DEQ of the refilling of each Group 1 storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
273	[40 CFR 63.654(i)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]
274	[LAC 33:III.2103.B]	Equip with a submerged fill pipe.
275	[LAC 33:III.2103.C]	Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
276	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
277	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
278	[LAC 33:III.5109.A.1]	Compliance with NESHAP 40 CFR 63 Subpart CC has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.

**EQT 0103 TK236 - Tank 236**

279	[LAC 33:III.2103.A]	Equip with a submerged fill pipe.
280	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
281	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0112 2-05 - Reformer Regeneration/Scrubber Vent**

282	[40 CFR 63.1566(a)(1)(i)]	Vent emissions to a flare that meets the requirements for control devices in 40 CFR 63.11(b). Subpart UUU. [40 CFR 63.1566(a)(1)(i)]
283	[40 CFR 63.1566(b)(2)]	Conduct each performance test according to the requirements in 40 CFR 63.1571 and under the conditions specified in 40 CFR 63 Subpart UUU Table 18. Subpart UUU. [40 CFR 63.1566(b)(2)]

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****EQT 0112 2-05 - Reformer Regeneration/Scrubber Vent**

- 284 [40 CFR 63.1566(b)] Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1566(b)(4) and (b)(6). Subpart UUU. [40 CFR 63.1566(b)]
- 285 [40 CFR 63.1566(c)(1)] Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 15 and 16 according to the methods specified in 40 CFR 63 Subpart UUU Tables 20 and 21. Subpart UUU. [40 CFR 63.1566(c)(1)]
- 286 [40 CFR 63.1567(a)(1)] Hydrochloric acid  $\geq 92\%$  reduction by weight or  $\leq 30$  ppmv (dry basis), corrected to 3% oxygen. Subpart UUU. [40 CFR 63.1567(a)(1)]  
Which Months: All Year Statistical Basis: None specified
- 287 [40 CFR 63.1567(b)(2)] Conduct each performance test according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. Subpart UUU. [40 CFR 63.1567(b)(2)]
- 288 [40 CFR 63.1567(b)] Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1567(b)(4) and (b)(5). Subpart UUU. [40 CFR 63.1567(b)]
- 289 [40 CFR 63.1567(c)(1)] Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 22 and 23 according to the methods specified in 40 CFR 63 Subpart UUU Tables 27 and 28. Subpart UUU. [40 CFR 63.1567(c)(1)]
- 290 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0118 15-91 - Dock No. 1 Marine Loading**

- 291 [LAC 33:III.5109.A] Loading operations for VOC with true vapor pressure less than 1.5 psia. No further control is required.

**EQT 0128 02-08 - GDU Emergency Generator G4501**

- 292 [40 CFR 63.6645(c)] Submit an Initial Notification. Subpart ZZZZ. [40 CFR 63.6645(c)]
- 293 [LAC 33:III.1101.B] Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: None specified
- 294 [LAC 33:III.1311.C] Opacity  $\leq 20$  percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average

**EQT 0129 03-08 - Admin Building Standby Generator G9802**

- 295 [LAC 33:III.1101.B] Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

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Air - Title V Regular Permit Renewal

**EQT 0129 03-08 - Admin Building Standby Generator G9802**

296 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: Six-minute average

**EQT 0131 05-08 - Pumper's Office Emergency Generator**

297 [40 CFR 60.4205(b)] Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart IIII. [40 CFR 60.4205(b)]

298 [40 CFR 60.4206] Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. over the entire life of the engine. Subpart IIII.

299 [40 CFR 60.4207(a)] Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart IIII. [40 CFR 60.4207(a)]

300 [40 CFR 60.4207(b)] Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]

301 [40 CFR 60.4209(a)] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]  
Which Months: All Year Statistical Basis: None specified

302 [40 CFR 60.4211(a)] Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]

303 [40 CFR 60.4211(c)] Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]

304 [40 CFR 60.4212] Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart IIII.

305 [40 CFR 63.6590(c)] Comply with applicable requirements of 40 CFR 60 Subpart IIII. [40 CFR 63.6590(c)]

**FUG 0002 FUG02 - Part 1 Fugitives**

306 [40 CFR 60.590] 40 CFR 60 Subpart GGG is superceded by 40 CFR 63 Subpart CC per 40 CFR 63.640(p).

307 [40 CFR 63.648(a)] Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]

308 [40 CFR 63.648(h)] Maintain all records for a minimum of 5 years Subpart CC. [40 CFR 63.648(h)]

309 [40 CFR 63.654(d)] Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

310 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

311 [LAC 33:III.2121] Comply with LAC 33:III.2121 by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart CC.

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****FUG 0002 FUG02 - Part 1 Fugitives**

- 312 [LAC 33:III.501.C.6] This part of the fugitive emission program is for MTBE, Isom, and GDU areas.
- 313 [LAC 33:III.501.C.6] Connectors associated with valves shall be monitored according to the valve requirements. A connector that is associated with a valve and is determined to be leaking will result in the connector being recorded as a leaking connector and repaired, recorded, and reported as a leaking connector.

**FUG 0006 FUG06 - Part 2 Fugitives**

- 314 [40 CFR 60.592(a)] Comply with the requirements of 40 CFR 60.482-1 to 482-10 as soon as practicable, but no later than 180 days after initial startup. Subpart GGG. [40 CFR 60.592(a)]
- 315 [40 CFR 60.592(d)] Comply with the provisions of 40 CFR 60.485 except as provided in 40 CFR 60.593. Subpart GGG. [40 CFR 60.592(d)]
- 316 [40 CFR 60.592(e)] Comply with the provisions of 40 CFR 60.486 and 60.487. Subpart GGG. [40 CFR 60.592(e)]
- 317 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 318 [LAC 33:III.2121] Comply with LAC 33:III.2121 by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with 40 CFR 60 Subpart GGG.
- 319 [LAC 33:III.501.C.6] This part of the fugitive emission program is for CMS/Octenes Unit, Poly Unit, Closed Vent System (CVS), and LRU.
- 320 [LAC 33:III.501.C.6] Connectors associated with valves shall be monitored according to the valve requirements. A connector that is associated with a valve and is determined to be leaking will result in the connector being recorded as a leaking connector and repaired, recorded, and reported as a leaking connector.

**FUG 0007 FUG07 - Part 3 Fugitives**

- 321 [40 CFR 63.640] Comply with 40 CFR 63 Subpart CC by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with 40 CFR 60 Subpart GGG.
- 322 [LAC 33:III.2121] Comply with LAC 33:III.2121 by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994.
- 323 [LAC 33:III.501.C.6] Connectors associated with valves shall be monitored according to the valve requirements. A connector that is associated with a valve and is determined to be leaking will result in the connector being recorded as a leaking connector and repaired, recorded, and reported as a leaking connector.
- 324 [LAC 33:III.501.C.6] This part of the fugitive emission program is for Tank Farm Areas, Truck Rack, Crude Unit, Reformer, FCCU, Gas Con, Crude Rack, Docks 1, 3, 4, and 5, Crude SWS, and FCC SWS.
- 325 [LAC 33:III.5109.A] Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

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Air - Title V Regular Permit Renewal

**FUG 0007 FUG07 - Part 3 Fugitives**

- 326 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (percent of leaking connectors  $\leq$  2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P. If an instrument reading  $\geq$  1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.  
Which Months: All Year Statistical Basis: None specified
- 327 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 328 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq$  2 for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.  
Which Months: All Year Statistical Basis: None specified
- 329 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\leq$  2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.  
Which Months: All Year Statistical Basis: None specified
- 330 [LAC 33:III.5109.A] VOC, Total recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 331 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**FUG 0007 FUG07 - Part 3 Fugitives**

- 332 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (percent of leaking connectors  $> 2$ ): VOC. Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P. If an instrument reading  $\geq 1000$  ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.  
Which Months: All Year Statistical Basis: None specified
- 333 [LAC 33:III.5109.A] Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 334 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.
- 335 [LAC 33:III.5109.A] Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 336 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (unsafe-to-monitor): VOC. Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P. Comply with this requirement instead of the requirements in Subsection O.1.  
Which Months: All Year Statistical Basis: None specified
- 337 [LAC 33:III.5109.A] Compressors (no detectable emissions): VOC. Total monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9.  
Which Months: All Year Statistical Basis: None specified
- 338 [LAC 33:III.5109.A] Compressors (seal system): VOC. Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8.  
Which Months: All Year Statistical Basis: None specified
- 339 [LAC 33:III.5109.A] Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**FUG 007 FUG07 - Part 3 Fugitives**

- 340 [LAC 33:III.5109.A] Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 341 [LAC 33:III.5109.A] Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 342 [LAC 33:III.5109.A] Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, monitor within 5 days. A more stringent procedure can be followed.
- 343 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified  
Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 344 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection I.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1.  
Which Months: All Year Statistical Basis: None specified
- 345 [LAC 33:III.5109.A] Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8.  
Which Months: All Year Statistical Basis: None specified
- 346 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1.
- 347 [LAC 33:III.5109.A] Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- 348 [LAC 33:III.5109.A] Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9.
- 349 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

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Air - Title V Regular Permit Renewal

**FUG 0007 FUG07 - Part 3 Fugitives**

- 350 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.d of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1.  
Which Months: All Year Statistical Basis: None specified
- 351 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3.  
Which Months: All Year Statistical Basis: None specified
- 352 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.
- 353 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.
- 354 [LAC 33:III.5109.A] Comply with LAC 33:III.5109.A by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994.
- 355 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 356 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).  
Which Months: All Year Statistical Basis: None specified
- 357 [LAC 33:III.5109.A] Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 358 [LAC 33:III.5109.A] Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 359 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.

**SPECIFIC REQUIREMENTS**

AI ID: 3116 - Alon Refining Krotz Springs Inc

Activity Number: PER20080013

Permit Number: 2600-00003-V2

Air - Title V Regular Permit Renewal

**FUG 0007 FUG07 - Part 3 Fugitives**

- 360 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1.  
Which Months: All Year Statistical Basis: None specified
- 361 [LAC 33:III.5109.A] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 362 [LAC 33:III.5109.A] Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- 363 [LAC 33:III.5109.A] Pumps in light liquid service: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section N, as specified in Paragraph D.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections D.1 through D.4.
- 364 [LAC 33:III.5109.A] Pressure relief device in gas/vapor service: Equip with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section N, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections F.1 and F.2.
- 365 [LAC 33:III.5109.A] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 366 [LAC 33:III.5109.A] Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 367 [LAC 33:III.5109.A] Submit report: Due semiannually starting six months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 368 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: VOC. Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading  $\geq$  1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****FUG 0007 FUG07 - Part 3 Fugitives**

- 369 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6 and the recordkeeping and reporting requirements.
- 370 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEO at least 30 days before implementing one of the alternate monitoring scenarios in Section J, as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 371 [LAC 33:III.5109.A] Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 372 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (percent leaking valves  $\geq$  4): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. Which Months: All Year Statistical Basis: None specified
- 373 [LAC 33:III.5109.A] Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors  $<$  1 inch in inside diameter in gas/vapor or light liquid service: VOC, Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3. A more stringent procedure can be followed. Which Months: All Year Statistical Basis: None specified
- 374 [LAC 33:III.5109.A] VOC, Total monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Which Months: All Year Statistical Basis: None specified
- 375 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 376 [LAC 33:III.5109.A] Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****FUG 0007 FUG07 - Part 3 Fugitives**

- 377 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1.
- 378 [LAC 33:III.5109.A] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 379 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3.  
Which Months: All Year Statistical Basis: None specified
- 380 [LAC 33:III.5109.A] Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 through E.7.
- 381 [LAC 33:III.5109.A] Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.  
Which Months: All Year Statistical Basis: None specified
- 382 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1.  
Which Months: All Year Statistical Basis: None specified
- 383 [LAC 33:III.5109.A] Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 384 [LAC 33:III.5109.A] Submit statement: Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 385 [LAC 33:III.5109.A] Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 386 [LAC 33:III.5109.A] Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****FUG 0007 FUG07 - Part 3 Fugitives**

- 387 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service  $\geq$  one inch in inside diameter size (opened or otherwise had the seal broken): VOC. Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor for leaks after being returned to VOTAP service during the next scheduled monitoring period, as specified in Paragraph O.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable.  
Which Months: All Year Statistical Basis: None specified
- 388 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1.

**FUG 0008 FUG08 - Part 4 Fugitives**

- 389 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 390 [LAC 33:III.2121.B.1] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- 391 [LAC 33:III.2121.B.2] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 392 [LAC 33:III.2121.B.3] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 393 [LAC 33:III.2121.C.1.a.i] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified
- 394 [LAC 33:III.2121.C.1.a.ii] Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified
- 395 [LAC 33:III.2121.C.1.a.iii] Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified
- 396 [LAC 33:III.2121.C.1.b.i] Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

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**FUG 0008 FUG08 - Part 4 Fugitives**

- 397 [LAC 33:III.2121.C.1.b.ii] Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).  
Which Months: All Year Statistical Basis: None specified
- 398 [LAC 33:III.2121.C.1.b.iii] Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified
- 399 [LAC 33:III.2121.C.1.c] Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).  
Which Months: All Year Statistical Basis: None specified
- 400 [LAC 33:III.2121.C.3.a] Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified
- 401 [LAC 33:III.2121.C.3.b] All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.  
Which Months: All Year Statistical Basis: None specified
- 402 [LAC 33:III.2121.C.4.c] Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.  
Which Months: All Year Statistical Basis: None specified
- 403 [LAC 33:III.2121.C.4.c] Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).  
Which Months: All Year Statistical Basis: None specified
- 404 [LAC 33:III.2121.E.1] When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 405 [LAC 33:III.2121.E] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 406 [LAC 33:III.2121.F] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Air Quality Assessment Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- 407 [LAC 33:III.501.C.6] Connectors associated with valves shall be monitored according to the valve requirements. A connector that is associated with a valve and is determined to be leaking will result in the connector being recorded as a leaking connector and repaired, recorded, and reported as a leaking connector.
- 408 [LAC 33:III.501.C.6] This part of the fugitive emission program are for DEA, LPG Rack, LPG Bullets, Crude Flare, ATS, FCC Utilities, FCC Flare, Rail Rack, and Crude Utilities.

**GRP 0006 - Process Fugitives**

Group Members: FUG 0002 FUG 0006 FUG 0007 FUG 0008

**SPECIFIC REQUIREMENTS****AI ID: 3116 - Alon Refining Krotz Springs Inc****Activity Number: PER20080013****Permit Number: 2600-00003-V2****Air - Title V Regular Permit Renewal****GRP 0006 - Process Fugitives**

409 [LAC 33:III.501.C.6]

The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units without triggering the need to apply for a permit modification, provided:

- a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increase except from the fugitive emission components themselves;
- b) The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
- c) Actual emissions following the changes will not exceed the emission limits contained in this permit; and
- d) The components are promptly incorporated into any applicable leak detection or repair program.

410 [LAC 33:III.501.C.6]

This group includes process fugitive emissions from the Krotz Springs Refinery. The fugitive emission program for this facility is divided into 4 parts (Fugitive Emission Program Parts 1, 2, 3, and 4). Fugitive units and specific requirements are listed separately for each part.

**GRP 0007 - Combustion Source Emission Cap**

Group Members: EQT 0026EQT 0027EQT 0028EQT 0029EQT 0030EQT 0061EQT 0073EQT 0075EQT 0076EQT 0087EQT 0092EQT 0093EQT 0097EQT 0108

411 [LAC 33:III.501.C.6]

Shall demonstrate compliance with the Combustion Source Cap emission limits specified in this specific requirement by recording heat input to each of the combustion sources under this cap. The emissions from each of the combustion sources shall be calculated based on the heat input. The heat input and calculated emissions shall be recorded each month. The total heat input and calculated emissions for last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Any emissions over the limit given in this specific requirement for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the total heat input to and calculated emissions from the combustion sources under this cap for the preceding calendar year shall be submitted to Office of Environmental Compliance, Enforcement Division by March 31.

CO: 359.86 tons per year  
 NOx: 523.69 tons per year  
 PM10: 32.57 tons per year  
 SO2: 131.19 tons per year  
 VOC: 22.64 tons per year.

**GRP 0008 - Storage Tank Emission Cap**

Group Members: EQT 0023EQT 0024EQT 0025EQT 0032EQT 0033EQT 0034EQT 0035EQT 0036EQT 0037EQT 0038EQT 0039EQT 0040EQT 0041EQT 0042EQT 0043EQT 0044EQT 0045EQT 0046EQT 0047EQT 0048EQT 0049EQT 0050EQT 0051EQT 0052EQT 0053EQT 0054EQT 0055EQT 0056EQT 0057EQT 0058EQT 0059EQT 0060EQT 0064EQT 0065EQT 0066EQT 0067EQT 0068EQT 0077EQT 0078EQT 0079EQT 0080EQT 0081EQT 0082EQT 0083EQT 0085EQT 0090EQT 0091EQT 0094EQT 0095EQT 0096EQT 0099EQT 0100EQT 0103EQT 0104EQT 0105EQT 0106EQT 0107EQT 0119EQT 0120EQT 0121EQT 0122EQT 0123EQT 0124EQT 0125EQT 0126EQT 0127

**SPECIFIC REQUIREMENTS**

**AI ID: 3116 - Alon Refining Krotz Springs Inc**

**Activity Number: PER20080013**

**Permit Number: 2600-00003-V2**

**Air - Title V Regular Permit Renewal**

**GRP 0008 - Storage Tank Emission Cap**

412 [LAC 33:III.501.C.6]

Shall demonstrate compliance with the emission limit (56.56 TPY VOCs) of this tank emission cap by recording the chemicals stored and throughput in the tanks under the cap. VOC emissions shall be calculated based on the chemicals stored and throughput. The throughput, chemicals stored, and calculated emissions shall be recorded each month. The total throughput and calculated VOC emissions for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the limit given in this specific requirement for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and calculated VOC emissions calculated for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

**GRP 0009 - Loading Sources Emission Cap**

**Group Members: EQT 0062 EQT 0063 EQT 0086 EQT 0088 EQT 0098 EQT 0101 EQT 0102 EQT 0118**

413 [LAC 33:III.501.C.6]

Shall demonstrate compliance with the emission limits of this Loading Sources Emission Cap by recording the chemicals loaded and throughput for each loading operation. Emissions from each loading operation shall be calculated based on the chemicals loaded, throughput, and control efficiency if emissions are controlled by a control device. The throughput, chemicals loaded, and calculated emissions shall be recorded each month. The total throughput and calculated emissions for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Any emissions over the limit given in this specific requirement for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals loaded, throughput, and calculated emissions for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

CO: 9.97 tons per year  
 NOx: 2.69 tons per year  
 PM10: 0.26 tons per year  
 SO2: 0.40 tons per year  
 VOC: 54.40 tons per year.

**UNF 0001 - Krotz Springs Refinery**

414 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

415 [40 CFR 61.145(b)(1)]

Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]

416 [40 CFR 61.148]

Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

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- 417 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 418 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 419 [40 CFR 61.357(c)] Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]
- 420 [40 CFR 61 ] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 421 [40 CFR 63 ] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 422 [40 CFR 68.12(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)]
- 423 [40 CFR 68.12(b)(2)] Complete the five-year accident history for the process as provided in 68.42. [40 CFR 68.12(b)(2)]
- 424 [40 CFR 68.12(b)(3)] Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)]
- 425 [40 CFR 68.12(b)(4)] Include in the RMP the certification specified in 68.12(b)(4). [40 CFR 68.12(b)(4)]
- 426 [40 CFR 68.150] Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
- 427 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 428 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 429 [40 CFR 68.165] Submit in the RMP information one worst-case release scenario for each Program 1 process. Include the data specified in 68.165(b)(1) through (13).
- 430 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 431 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 432 [40 CFR 68.190(c)] Submit revised registration to EPA. Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 433 [40 CFR 68.190] Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
- 434 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 435 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 436 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).

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- 437 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
- 438 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 439 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 440 [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 441 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 442 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 443 [40 CFR 68.42] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 444 [40 CFR 82.Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 445 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 446 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 447 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 448 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 449 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 450 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 451 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 452 [LAC 33:III.501.C.6] Shall not burn or combust fuel oil in any of the heaters and boilers.

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- 453 [LAC 33:III.509] Comply with the requirements of PSD-LA-745. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-745.
- 454 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 455 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 456 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 457 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 458 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 459 [LAC 33:III.5107.A] Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 460 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 461 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
- 462 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931. Submit notification in the manner provided in LAC 33:I.3923.
- 463 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 464 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

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- 465 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 466 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 467 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 468 [LAC 33:III.5151.F.1.f] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 469 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- 470 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 471 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning
- 472 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 473 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 474 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 475 [LAC 33:III.5907] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 476 [LAC 33:III.5911.C] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 477 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 478 [LAC 33:III.927] Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.